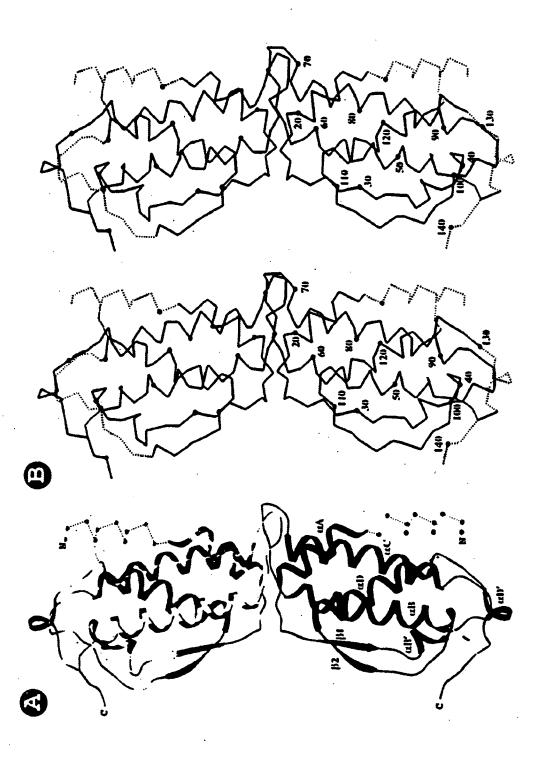


and though though them there were though these though the terminal than the terminal than the terminal than

Figure 2



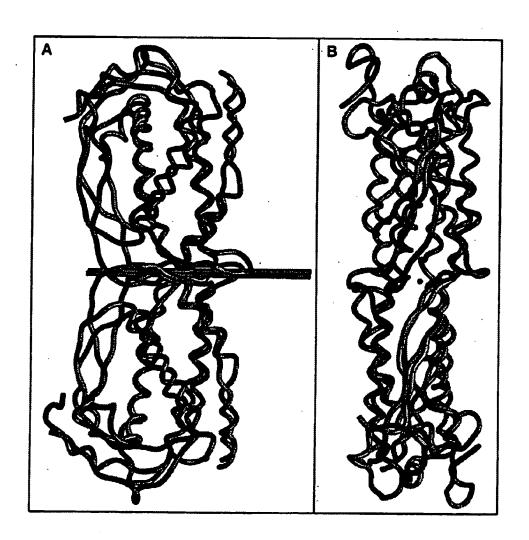
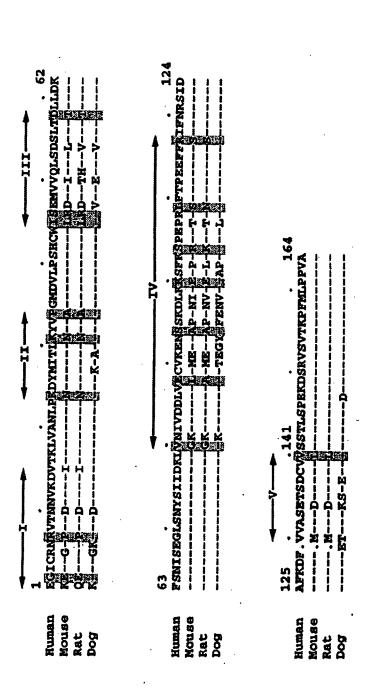
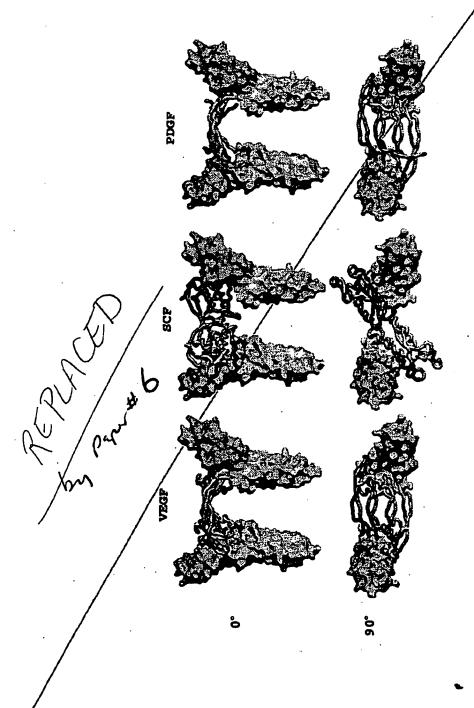


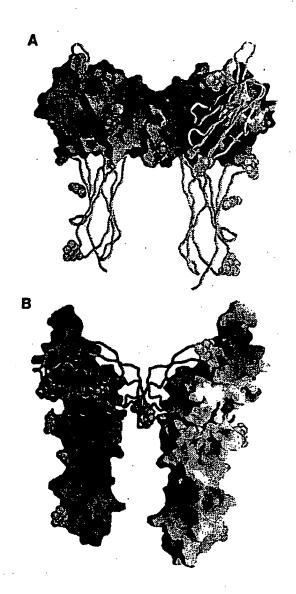
Figure 5





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```
1SCF
HEADER
          GROWTH FACTOR
          HUMAN RECOMBINANT STEM CELL FACTOR
TITLE
          MOL ID: 1;
COMPND
         2 MOLECULE: STEM CELL FACTOR;
COMPND
         3 CHAIN: A, B, C, D;
4 SYNONYM: SCF, SL, MGF, MAST CELL GROWTH FACTOR;
COMPND
COMPND
         5 ENGINEERED: YES;
COMPND
         6 BIOLOGICAL_UNIT: DIMER
COMPND
          MOL_ID: 1;
SOURCE
         2 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE
         3 ORGANISM COMMON: HUMAN;
SOURCE
         4 EXPRESSION SYSTEM: NULL
SOURCE
          HUMAN STEM CELL FACTOR, STEEL FACTOR, KIT LIGAND, MAST CELL
KEYWDS
         2 GROWTH FACTOR
KRYWDS
          X-RAY DIFFRACTION
EXPDTA
          X. JIANG, O. GUREL, K.E. LANGLEY, W.A. HENDRICKSON
AUTHOR
                    X. JIANG, O. GUREL, K.E. LANGLEY, W.A. HENDRICKSON
             AUTH
JRNL
                     CRYSTAL STRUCTURE OF RECOMBINANT HUMAN STEM CELL
JRNL
             TITL
             TITL 2 FACTOR
JRNL
                     TO BE PUBLISHED
JRNL
             REF
                                                                         0353
JRNL
            REFN
REMARK
REMARK
         2 RESOLUTION. 2.2 ANGSTROMS.
REMARK
REMARK
REMARK
         3 REFINEMENT.
                           : X-PLOR 3.1
              PROGRAM
REMARK
         3
                           : BRUNGER
              AUTHORS
REMARK
REMARK
            DATA USED IN REFINEMENT.
REMARK
         3
              RESOLUTION RANGE HIGH (ANGSTROMS) : 2.2
RESOLUTION RANGE LOW (ANGSTROMS) : 20.0
REMARK
REMARK
              DATA CUTOFF
                                        (SIGMA(F)) : 2
REMARK
              DATA CUTOFF HIGH
DATA CUTOFF LOW
                                          (ABS(F)) : 100000
(ABS(F)) : 0.1
REMARK
REMARK
              COMPLETENESS (WORKING+TEST) (%): 96.6
REMARK
              NUMBER OF REFLECTIONS
REMARK
REMARK
            FIT TO DATA USED IN REFINEMENT.
REMARK
              CROSS-VALIDATION METHOD
                                                  : THROUGHOUT
REMARK
              FREE R VALUE TEST SET SELECTION : RANDOM
REMARK
              R VALUE
                              (WORKING SET) : 0.199
REMARK
              FREE R VALUE
                                                  : 0.242
REMARK
              FREE R VALUE TEST SET SIZE
                                              (%): 6.0
REMARK
              FREE R VALUE TEST SET COUNT
                                                  : 3016
REMARK
              ESTIMATED ERROR OF FREE R VALUE : 0.0044
REMARK
REMARK
             FIT IN THE HIGHEST RESOLUTION BIN.
REMARK
         3
              TOTAL NUMBER OF BINS USED
BIN RESOLUTION RANGE HIGH
REMARK
                                                  (A) : 2.0
REMARK
              BIN RESOLUTION RANGE LOW
                                                 (A) : 2.28
REMARK
              BIN COMPLETENESS (WORKING+TEST) (%): 97.0
REMARK
                                      (WORKING SET) : 4349
              REFLECTIONS IN BIN
REMARK
              BIN R VALUE
                                       (WORKING SET) : 0.3159
REMARK
              BIN FREE R VALUE
                                                      : 0.3450
REMARK
              BIN FREE R VALUE TEST SET SIZE (%): 6.4
BIN FREE R VALUE TEST SET COUNT: 302
REMARK
REMARK
              ESTIMATED ERROR OF BIN FREE R VALUE : 0.0198
REMARK
         3
REMARK
             NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK
```

```
PROTEIN ATOMS
                                            : 3517
REMARK
          3
                                            : 0
               NUCLEIC ACID ATOMS
REMARK
          3
                                           : 19
               HETEROGEN ATOMS
REMARK
          3
               SOLVENT ATOMS
                                            : 264
PEMARK
REMARK
             B VALUES.
REMARK
                                   (A**2) : 38.5
(OVERALL, A**2) : 32.1
               FROM WILSON PLOT
REMARK
          3
               MEAN B VALUE
REMARK
               OVERALL ANISOTROPIC B VALUE.
REMARK
                B11 (A**2) : NULL
B22 (A**2) : NULL
REMARK
          3
REMARK
          3
                B33 (A**2) : NULL
REMARK
                B12 (A**2) : NULL
B13 (A**2) : NULL
REMARK
          3
REMARK
                B23 (A**2) : NULL
PRMARK
REMARK
          3
             ESTIMATED COORDINATE ERROR.
REMARK
                                                 (A) : NULL
              ESD FROM LUZZATI PLOT
REMARK
          3
               ESD FROM SIGMAA
                                                 (A) : NULL
REMARK
          3
               LOW RESOLUTION CUTOFF
                                                 (A) : NULL
REMARK
REMARK
              CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK
                                                (A) : NULL
(A) : NULL
               ESD FROM C-V LUZZATI PLOT
REMARK
               ESD FROM C-V SIGMAA
REMARK
REMARK
              RMS DEVIATIONS FROM IDEAL VALUES.
REMARK
                                          (A) : 0.016
(DEGREES) : 2.5
REMARK
              BOND LENGTHS
               BOND ANGLES
REMARK
          3
               DIHEDRAL ANGLES
                                          (DEGREES) : 22.8
REMARK
          3
                                          (DEGREES) : 2.05
               IMPROPER ANGLES
REMARK
REMARK
              ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK
          3
REMARK
              ISOTROPIC THERMAL FACTOR RESTRAINTS.
                                                            RMS
                                                                     SIGMA
REMARK
          3
               MAIN-CHAIN BOND
                                                 (A**2) : 1.2
                                                                  ; 1.5
REMARK
          3
                                                 (A**2) : 1.6
(A**2) : 2.1
               MAIN-CHAIN ANGLE
SIDE-CHAIN BOND
                                                                   ; 2.0
REMARK
                                                                   ; 2.0
REMARK
               SIDE-CHAIN ANGLE
                                                 (A**2) : 2.4
                                                                   ; 2.5
REMARK
REMARK
              NCS MODEL : RESTRAINTS
REMARK
REMARK
                                                                   SIGMA/WEIGHT
                                                             RMS
             NCS RESTRAINTS.
REMARK
                                                                  ; NULL
               GROUP 1 POSITIONAL GROUP 1 B-FACTOR
                                                     (A) : NULL
REMARK
                                                  (A++2) : NULL
                                                                   ; NULL
REMARK
REMARK
              PARAMETER FILE 1 : PARAM19_MOD.PRO
PARAMETER FILE 2 : PARAM19.SOL
REMARK
REMARK
          3
              PARAMETER FILE 3 : HETEROPARAM19.PAR
REMARK
              TOPOLOGY FILE 1
TOPOLOGY FILE 2
                                    : TOPH19_MOD.PRO
REMARK
                                    : TOPH19.SOL.
REMARK
              TOPOLOGY FILE 3
                                    : HETERO. TOP
REMARK
REMARK
              OTHER REFINEMENT REMARKS: REFINEMENT WAS PERFORMED WITH
REMARK
             ANOMALOUS ON; PARAM19 MOD.PRO AND TOPH19 MOD.PRO ARE MODIFIED PARAMETER AND TOPOLOGY FILES OF PARAM19.PRO AND TOPH19.PRO, RESPECTIVELY, FOR SELENOMETHIONYL PROTEINS.
REMARK
REMARK
REMARK
              NCS RESTRAINTS WERE APPLIED ONLY DURING THE INITIAL
REMARK
              REFINEMENT.
REMARK
REMARK
          4 1SCF COMPLIES WITH FORMAT V. 2.3,
REMARK
```

```
REMARK
          6 THE FOLLOWING RESIDUES ARE DISORDERED IN THE STRUCTURE:
          6 A1-10; A92-103; B1-10; B130-136; B139-141; C1-10; C92-103;
REMARK
          6 C127-141; D1-10; D91-103; D128-141
REMARK
          7 THE SIDE CHAINS OF THE FOLLOWING RESIDUES ARE DISORDERED IN
          7 THE STRUCTURE: All-13,A91,A127,A133,B11,B13,B93,B96-97, B103,B128,B137,C11,C13,C39,D11,D13,D90,D106,D127
REMARK
REMARK
REMARK 8 LYS A 91 IS LAST RESIDUE BEFORE GAP, PHE B 129 IS LAST
REMARK 8 RESIDUE BEFORE GAP, LYS C 91 IS LAST RESIDUE BEFORE GAP,
         8 PHE C 126 IS LAST RESIDUE BEFORE GAP, VAL D 90 IS LAST
REMARK
          8 RESIDUE BEFORE GAP.
REMARK
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE
REMARK 200 DATE OF DATA COLLECTION
                                                   : X-RAY DIFFRACTION
REMARK 200
REMARK 200
             TEMPERATURE (KELVIN) : 110
                                                   : 7.4
REMARK 200 PH
             NUMBER OF CRYSTALS USED
REMARK 200
REMARK 200
REMARK 200 SYNCHROTRON
                                            (Y/N) : Y
REMARK 200 RADIATION SOURCE
REMARK 200 BEAMLINE
                                                    : NSLS
                                                    : X4A
REMARK 200 X-RAY GENERATOR MODEL
                                                    : NULL
REMARK 200 MONOCHROMATIC OR LAUE (M/L): M
REMARK 200 WAVELENGTH OR RANGE (A): 0.
                                            (A) : 0.986
REMARK 200 MONOCHROMATOR
                                                    : SILICON CRYSTAL
                                                    : MIRRORS
REMARK 200
             OPTICS
REMARK 200
                                                    : IMAGE PLATE
REMARK 200 DETECTOR TYPE
             DETECTOR MANUFACTURER
                                                    : FUJI
REMARK 200
REMARK 200 INTENSITY-INTEGRATION SOFTWARE : DENSO
REMARK 200 DATA SCALING SOFTWARE
                                            : SCALEPACK
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS
                                                   : 65689
REMARK 200 RESOLUTION RANGE HIGH (A): 2.0
REMARK 200 RESOLUTION RANGE LOW (A): 25
REMARK 200 REJECTION CRITERIA (SIGMA(I)) : -3
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE
                                               (%) : 94.9
REMARK 200 DATA REDUNDANCY
REMARK 200 R MERGE
REMARK 200 R SYM
                                                    : 2.75
                                                (I) : NULL
REMARK 200 R SYM (I): 0.056
REMARK 200 <1/SIGMA(I)> FOR THE DATA SET : 15.3
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A): 2.0 REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A): 2.07
REMARK 200 COMPLETENESS FOR SHELL
REMARK 200 DATA REDUNDANCY IN SHELL
REMARK 200 R MERGE FOR SHELL
                                                (*) : 72
                                                    : 2.23
                                                (I) : NULL
                                                \{I\} : 0.581
REMARK 200 R SYM FOR SHELL
REMARK 200 <1/SIGMA(I) > FOR SHELL
                                                     : 1.6
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: NULL
 REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: MAD
 REMARK 200 SOFTWARE USED: MADLSQ
 REMARK 200 STARTING MODEL: NULL .
```

```
REMARK 200
REMARK 200 REMARK: NULL
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS (%): NULL REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): NULL
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS: PROTEIN WAS CRYSTALLIZED FROM
REMARK 280 22% PEG 400, 220 MM CACL2, 100 MM HEPES, PH 7.4 AND 5MM
REMARK 280 DTT IN 20 DEGREE ROOM
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 21 21 21
REMARK 290
                          SYMMETRY
                 SYMOP
REMARK 290
REMARK 290
                MMMMMM
                          OPERATOR
                  1555
                          X,Y,Z
REMARK 290
                   2555
                          1/2-X,-Y,1/2+Z
REMARK 290
                 3555
                          -X,1/2+Y,1/2-Z
REMARK 290
                           1/2+X,1/2-Y,-Z
REMARK 290
                   4555
REMARK 290
                WHERE NNN -> OPERATOR NUMBER
REMARK 290
                      MMM -> TRANSLATION VECTOR
REMARK 290
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY REMARK 290 RELATED MOLECULES.
                       1 1.000000 0.000000 0.000000
                                                                    0.00000
REMARK 290
              SMTRY1
                        1 0.000000
                                       1.000000
                                                  0.000000
                                                                    0.00000
              SMTRY2
REMARK 290
                                                 1.000000
                                                                    0.00000
                                      0.000000
REMARK 290
              SMTRY3
                                                  0.000000
                        2 -1.000000 0.000000
                                                                   35.90922
REMARK 290
              SMTRY1
                        2 0.000000 -1.000000
                                                  0.000000
REMARK 290
              SMTRY2
                                                                    0.00000
                        2 0.000000 0.000000
                                                 1.000000
                                                                   44.09560
REMARK 290
              SMTRY3
                        3 -1.000000
3 0.000000
                                       0.000000
                                                 0.000000
                                                                    0.00000
REMARK 290
              SMTRY1
                        3 0.000000 0.000000 -1.000000
4 1.000000 0.000000 0.000000
4 0.000000 -1.000000
                                                                   41.27456
              SMTRY2
REMARK 290
                                                                   44.09560
REMARK 290
              SMTRY3
                                                                   35.90922
REMARK 290
              SMTRY1
                                                                   41.27456
              SMTRY2
REMARK 290
                           0.000000 0.000000 -1.000000
                                                                    0.00000
              SMTRY3
REMARK 290
REMARK 290
REMARK 290 REMARK: NULL
REMARK 295
REMARK 295 NON-CRYSTALLOGRAPHIC SYMMETRY
REMARK 295 THE TRANSFORMATIONS PRESENTED ON THE MTRIX RECORDS BELOW
REMARK 295 DESCRIBE NON-CRYSTALLOGRAPHIC RELATIONSHIPS AMONG ATOMS
REMARK 295 IN THIS ENTRY. APPLYING THE APPROPRIATE MTRIX
REMARK 295 TRANSFORMATION TO THE RESIDUES LISTED FIRST WILL YIELD
REMARK 295 APPROXIMATE COORDINATES FOR THE RESIDUES LISTED SECOND.
REMARK 295 CHAIN IDENTIFIERS GIVEN AS "?" REFER TO CHAINS FOR WHICH
REMARK 295 ATOMS ARE NOT FOUND IN THIS ENTRY.
REMARK 295
                                                  TRANSFORMED TO
                           APPLIED TO
REMARK 295
                                                  CHAIN RESIDUES
                                                                         RMSD
              TRANSFORM CHAIN RESIDUES
REMARK 295
REMARK 295
                SSS
                                                                         1.020
                                11 ..
                                        91
                                                                 91
                            В
REMARK 295
               M 1
                                                   C
                                                         11 .. 91
                                                                         1.677
                                        91
REMARK 295
                  2
                            A
                                11 ...
                                                                         1.926
                                                                91
               M .3
                            D
                                11 ..
                                        91
                                                   A
                                                         11 ..
REMARK 295
                                11 ..
                                        91
                                                    В
                                                         11 ..
                                                                 91
                                                                         0.620
                            C
REMARK 295
               M 4
                                                                         1.764
                            D
                                11 ...
REMARK 295
               M
                   5
```

```
11 ..
                                                              91
                                                                      1.810
REMARK 295
                           C
                               11 ..
                                      91
                                                                      0.898
REMARK 295
               М
REMARK 295
               WHERE SSS -> COLUMNS 8-10 OF MTRIX RECORDS
REMARK 295
REMARK 295
REMARK 295 REMARK:
REMARK 295 TRANSFORMATION RELATES CHAIN B TO CHAIN A; INCLUDING
            RESIDUES 11-90 AND 104-126.
REMARK 295
REMARK 295 TRANSFORMATION RELATES CHAIN C TO CHAIN A; INCLUDING
            RESIDUES 11-90 AND 104-126.
REMARK 295
REMARK 295 TRANSFORMATION RELATES CHAIN D TO CHAIN A; INCLUDING
            RESIDUES 11-90 AND 104-126.
REMARK 295
REMARK 295 TRANSFORMATION RELATES CHAIN C TO CHAIN B; INCLUDING
            RESIDUES 11-90 AND 104-126.
REMARK 295
REMARK 295 TRANSFORMATION RELATES CHAIN D TO CHAIN B; INCLUDING
            RESIDUES 11-90 AND 104-126.
REMARK 295
REMARK 295 TRANSFORMATION RELATES CHAIN D TO CHAIN C; INCLUDING
REMARK 295
            RESIDUES 11-90 AND 104-126.
REMARK 295 TRANSFORMATION RELATES CHAIN CD DIMER TO CHAIN AB DIMER;
             INCLUDING RESIDUES A11-91, A104-126, B11-B90, B104-127,
REMARK 295
             C11-91, C104-126, D11-90, D104-127
REMARK 295
REMARK 470
REMARK 470 MISSING ATOM
REMARK 470 THE FOLLOWING RESIDUES HAVE MISSING ATOMS (M=MODEL NUMBER;
REMARK 470 RES-RESIDUE NAME; C-CHAIN IDENTIFIER; SSEQ-SEQUENCE NUMBER;
REMARK 470 I=INSERTION CODE):
                             EMOTA
              M RES CSSEQI
REMARK 470
                                         ND2
                                   OD1
                ASN A 11
                              CG
REMARK 470
                                   CG2
                VAL A
                       12
                              CG1
REMARK 470
                                   CD
                                         CE
                                              NZ
                       13
                              CG
REMARK 470
                LYS A
                                              NZ
                                         CE
                                   CD
                LYS A 91
                              CG
REMARK 470
                              CG
                                   CD
                                         CE
                                              NZ
                LYS A 127
REMARK 470
                              OG
                SER A 133
REMARK 470
                                   OD1
                                         ND2
                              CG
                ASN B
                      11
REMARK 470
                                              NZ
REMARK 470
                LYS B
                       13
                              CG
                                   CD
                                         Œ
                ASN B
                       93
                              CG
                                   OD1
                                         ND2
REMARK 470
                              CG
                                   CD
                                         Œ
                                              NZ
                LYS B
                       96
REMARK 470
                                   OD1
                                         OD2
                ASP B
                       97
                              CG
REMARK 470
                LYS B 103
                              CG
                                   CD
                                         CE
                                              NZ
REMARK 470
                                   OD1
                                         OD2
                ASP B 128
                              CG
REMARK 470
                                   OD1
                                         OD2
REMARK 470
                ASP B 137
                              CG
                ASN C
                       11
                              CG
                                   OD1
                                         ND2
REMARK 470
                              CG
                                   CD
                                         CE
                                              NZ
                LYS C
REMARK 470
                       13
                                         CD<sub>2</sub>
                LEU C
                                   CD1
REMARK 470
                       39
                              CG
                              CG
                                   OD1
                                         ND2
                ASN D
                       11
REMARK 470
                                              NZ
                              CG
                                   CD
                                         CE
                LYS D
REMARK 470
                       13
REMARK 470
                VAL D
                       90
                              CG1
                                   CG2
                                              OE2
                                    CD
                                         OE1
                GLU D 106
                              CG
REMARK 470
                              CG
                                    CD
                                              NZ
                LYS D 127
REMARK 470
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: CLOSE CONTACTS
REMARK 500
REMARK 500 THE FOLLOWING ATOMS THAT ARE RELATED BY CRYSTALLOGRAPHIC
REMARK 500 SYMMETRY ARE IN CLOSE CONTACT. AN ATOM LOCATED WITHIN 0.15
REMARK 500 ANGSTROMS OF A SYMMETRY RELATED ATOM IS ASSUMED TO BE ON A
REMARK 500 SPECIAL POSITION AND IS, THEREFORE, LISTED IN REMARK 375 REMARK 500 INSTEAD OF REMARK 500. ATOMS WITH NON-BLANK ALTERNATE
REMARK 500 LOCATION INDICATORS ARE NOT INCLUDED IN THE CALCULATIONS.
REMARK 500
```

```
REMARK 500 DISTANCE CUTOFF:
REMARK 500 2.2 ANGSTROMS FOR CONTACTS NOT INVOLVING HYDROGEN ATOMS
REMARK 500 1.6 ANGSTROMS FOR CONTACTS INVOLVING HYDROGEN ATOMS
REMARK 500
            ATM1 RES C
                                         RES C SSEQI
REMARK 500
                         SSEQI
                                   ATM2
                                                       SSYMOP
                                                                 DISTANCE
                                         VAL A
                                   0
                                                 139
                                                          3655
REMARK 500
            CA
                    CA
                          1021
REMARK 500
REMARK 500 REMARK: NULL
REMARK 600
REMARK 600 HETEROGEN
            1PE: ONLY PART OF THE PEG400 CHAIN IS ORDERED IN THE
REMARK 600
REMARK 600
            STRUCTURE.
REMARK 999
REMARK 999 SEQUENCE
                                                    35 NOT IN ATOMS LIST
                                             1 -
                       SWS
                               P21583
REMARK 999 1SCF A
REMARK 999 1SCF
REMARK 999 1SCF
                                           167 -
                                                   273 NOT IN ATOMS LIST
                                P21583
                       SWS
                                P21583
                                            1 -
                                                    35 NOT IN ATOMS LIST
                       SWS
                 В
                                           164 -
                                                   273 NOT IN ATOMS LIST
                       SWS
                               P21583
REMARK 999 1SCF
REMARK 999 1SCF.
                                                    35 NOT IN ATOMS LIST
                 C
                       SWS
                                P21583
                                             1 -
REMARK 999 1SCF
                       SWS
                                P21583
                                           152 -
                                                   273 NOT IN ATOMS LIST
                  C
                               P21583
                                             1 -
                                                    35 NOT IN ATOMS LIST
                       SWS
REMARK 999 1SCF
                                                   273 NOT IN ATOMS LIST
                                           153 -
REMARK 999 1SCF
                 D
                       SWS
                                P21583
                                           SCF_HUMAN
       1SCF A
                       91 SWS
                                   P21583
                                                             36
                                                                    116
                11
DBREF
                                            SCF_HUMAN
SCF_HUMAN
                          SWS
                                   P21583
                                                            129
                                                                    166
       1SCF A
               104
                      141
DBREF
                                                             36
                                                                    154
       1SCF B
                11
                      129
                           SWS
                                   P21583
DBREF
                                            SCF_HUMAN
SCF_HUMAN
SCF_HUMAN
SCF_HUMAN
       1SCF B
               137
                      138
                          SWS
                                   P21583
                                                            162
                                                                    163
DBREF
                                                             36
                                   P21583
                                                                    116
                           SWS
                       91
DBREF
       1SCF C
                11
                                                            129
                                                                    151
                                   P21583
DBREF
       1SCF C
               104
                      126
                           SWS
                                                             36
                      90
                           SWS
                                   P21583
                                                                    115
       1SCF D
                11
DBREF
                                            SCF_HUMAN
                           SWS
                                   P21583
                                                            129
                      127
DBREF
       1SCF D
               104
                     27 SWS P21583
                                         MET
                                                52 MODIFIED
SEQADV 1SCF MSE A
                                                61 MODIFIED
SEQADV 1SCF MSE A
                     36 SWS
                             P21583
                                         MET
                                         MET
                                                73 MODIFIED
SEQADV 1SCF MSE A
                     48 SWS
                              P21583
                                         GLU
                                               117 GAP IN PDB ENTRY
                              P21583
SEQADV 1SCF
                         SWS
                                         ASN
                                               118 GAP IN PDB ENTRY
SEQADV 1SCF
                         SWS
                              P21583
                 A
SEQADV 1SCF
                              P21583
                                         SER
                                                119 GAP IN PDB ENTRY
                 A
                         SWS
                                              · 120 GAP IN PDB ENTRY
                              P21583
                                         SER
                         SWS
SEQADV 1SCF
                 A
                                                121 GAP IN PDB ENTRY
                         SWS
                              P21583
                                         LYS
SEOADV 1SCF
                 A
                                                122 GAP
                                                        IN PDB ENTRY
                              P21583
                                         ASP
                A
                         SWS
SEQADV 1SCF
                                         LEU
                                                123 GAP
                                                        IN PDB ENTRY
                              P21583
                         SWS
SEQADV 1SCF
                A
                                                124 GAP IN PDB ENTRY
                                         LYS
SEOADV 1SCF
                         SWS
                              P21583
                                                125 GAP IN PDB ENTRY
                         SWS
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                            CYS B
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                   MSE A
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MSE A
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                                                     ASP A
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                   MSE A
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CISPEP
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ORIGX1
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ORIGX2
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ORIGX3
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SCALE1
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SCALE2
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SCALE3
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MTRIX1
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                        -0.929200
                                    0.095000
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MTRIX2
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                                   -0.982100
                                                     43.17570
             0.186300 -0.028800
MTRIX3
                                                     63.79985
17.94411
                                   -0.157471
          2 -0.935658 -0.315827
MTRIX1
            -0.265278
                        0.923709
                                   -0.276386
          2
MTRIX2
            0.232747 -0.216829 -0.948058
                                                     63.68074
MTRIX3
                        0.088300 -0.051700
                                                     54.54720
MTRIX1
          3 -0.994700
                                                     48.88150
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                                    0.119100
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MTRIX2
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                                                    -20.54390
          3 -0.040600
                        0.123400
MTRIX3
                        0.100500
                                                     55.16840
                                   -0.087800
            -0.991100
MTRIX1
                                                     45.07210
          4 -0.117800
                       -0.968000
                                    0.221700
MTRIX2
          4 -0.062700
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                                    0.971100
                                                    -21.92400
MTRIX3
                                                     52.26270
                                    0.179700
          5 -0.951900 -0.248300
MTRIX1
                                                     13.33780
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MTRIX2
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                         0.947600
                                                     74.41510
          5 -0.130900 -0.200900
                                   -0.970800
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MTRIX3
                        0.147100
                                                      0.55340
                                   -0.098100
MTRIX1
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                                                     52.60730
                                   -0.052100
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                       -0.988400
MTRIX2
                                                     86.74100
                        0.037300
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                                                                   1
            -0.104600
MTRIX3
                                                      52.84290
                                    0.166100
MTRIX1
            -0.955400 -0.244200
                                                      12.52990
                                   -0.152200
            -0.269500
                         0.950900
MTRIX2
                                                      73.76110
          7 -0.120800
                        -0.190100
                                   -0.974300
                                                                   1
MTRIX3
                                                                1.00
                                    10.232
                                              3.110
                                                       20.636
                                                                     60.07
                   ASN A
ATOM
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                                     9.176
                                              3.892
                                                                1.00 59.79
              CA
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MOTA
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                                      9.647
                                                       19.309
                   ASN A
                           11
MOTA
                                      9.661
                                                       19.910
                                               6.288
                   ASN A
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MOTA	5	CB	ASN	A	11	8.113	4.228	21.038	1.00 60.46	C
MOTA	6	N	VAL	A	12	10.013	5.143	18.009	1.00 57.40	N
ATOM	7	CA	VAL	<b>A</b> .	12	10.715	6.225	17.309	1.00 53.71	С
MOTA	8	С	VAL	A	12	9.844	7.387	16.820	1.00 50.84	С
MOTA	9	0	VAL	A	12	10.343	8.268	16.130	1.00 51.46	0
MOTA	10	CB	VAL	A	12	11.541	5.657	16.126	1.00 53.25	С
MOTA	11	N	LYS	A	13	8.543	7.490	17.147	1.00 49.07	N
ATOM	12	CA	LYS	A	13	7.721	8.640	16.756	1.00 44.35	С
ATOM	13	С	LYS	A	13	8.114	9.879	17.542	1.00 42.88	С
ATOM	14	0	LYS	A	13	8.271	10.995	17.007	1.00 41.79	0
MOTA	15	CB	LYS	A	13	6.258	8.378	17.093	1.00 44.76	. С
ATOM	16	N	ASP	A	14	8.283	9.557	18.839	1.00 38.29	N
MOTA	17	CA	ASP	A	14	8.609	10.545	19.818	1.00 35.56	С
ATOM	18	С	ASP	A	14	10.068	10.894	19.718	1.00 32.01	С
ATOM	19	0	ASP	A	14	10.389	12.060	19.896	1.00 30.80	0
MOTA	20	CB	ASP	A	14	8.151	10.072	21.200	1.00 38.77	С
ATOM	21	CG	ASP	A	14	6.725	10.518	21.630	1.00 43.77	С
ATOM	22	OD1	ASP	A	14	6.046	11.324	20.969	1.00 45.53	0
MOTA	23		ASP		14	6.269	10.057	22.680	1.00 47.33	0
ATOM	24	N	VAL		15	10.939	9.938	19.360	1.00 28.31	N
ATOM	25	CA	VAL	A	15	12.335	10.224	19.089	1.00 27.35	С
ATOM	26	C	VAL		15	12.510	11.219	17.959	1.00 29.06	С
	. 27	0	VAL	A	15	13.265	12.166	18.138	1.00 32.49	0
ATOM	28	CB	VAL	A	15	13.191	8.976	18.792	1.00 26.33	C
ATOM	29		VAL		15	14.623	9.347	18.405	1.00 20.32	С
MOTA	30		VAL	A	15	13.215	8.064	20.008	1.00 24.37	C
MOTA	31	N	THR		16	11.858	11.085	16.807	1.00 28.42	N
MOTA	32	CA	THR	A	16	11.968	12.085	15.758	1.00 27.97	C
MOTA	33	C	THR		16	11.386	13.413	16.208	1.00 25.43	C
ATOM	34	Ō	THR	A	16	12.020	14.418	15.905	1.00 25.82	.0
ATOM	35	CB	THR	A	16	11.357	11.646	14.385	1.00 27.70	С
MOTA	36	OG1	THR	A	16	9.959	11.529	14.588	1.00 32.27	. 0
ATOM	37	CG2	THR	A	16	11.931	10.335	13.912	1.00 25.71	С
ATOM	. 38	N	LYS		17	10.243	13.459	16.928	1.00 24.83	N
ATOM	39	CA	LYS	A	17	9.701	14.698	17.482	1.00 23.60	С
ATOM	40	C	LYS	A	17	10.659	15.401	18.410	1.00 21.54	C
ATOM	41	0	LYS	Α	17	10.756	16.624	18.373	1.00 23.88	0
ATOM	42	CB	LYS	A	17	8.365	14.488	18.206	1.00 27.08	c
ATOM	43	CG	LYS	A	17	7.291	14.120	17.198	1.00 34.84	C
MOTA	44	CD	LYS	A	17	5.881	14.040	17.781	1.00 40.64	C
MOTA	45	CE	LYS	A	17	4.800	13.911	16.665	1.00 45.98	C
MOTA	46	NZ	LYS	A	17	4.607	12.559	16.140	1.00 48.58	n
MOTA	47	N	LEU	A	18	11.417	14.646	19.212	1.00 19.73	N
MOTA	48	CA	LEU	A	18	12.377	15.207	20.151	1.00 17.98	С
ATOM	49	С	LEU	A	18	13.544	15.778	19.401	1.00 17.55	С
ATOM	50	0	LEU	A	18	13.813	16.959	19.523	1.00 17.68	0
ATOM	51	CB	LEU	A	18	12.875	14.144	21.121	1.00 17.63	C
MOTA	52	CG	LEU	A	18	13.850	14.582	22.216	1.00 15.34	C
ATOM	53	CD1	LEU	A	18	13.278	15.668	23.080	1.00 15.28	C
ATOM	54		LEU		18	14.253	13.389	23.032	1.00 14.40	С
MOTA	55	N	VAL	A	19	14.189	14.952	18.577	1.00 18.35	N
ATOM	56	CA	VAL		19	15.187	15.421	17.628	1.00 19.40	Ç
MOTA	57	C	VAL		19	14.757	16.628	16.824	1.00 18.97	Ç
ATOM	58	ŏ	VAL		19	15.533	17.562	16.711	1.00 22.36	0
ATOM	59	CB	VAL		19	15.668	14.325	16.729	1.00 18.19	С
ATOM	60		VAL		19	16.675	14.817	15.708	1.00 20.68	С
ATOM	61	CG2	VAL	A	19	16.422	13.390	17.612	1.00 19.91	· c
ATOM	62	N	ALA		20	13.530	16.732	16.366	1.00 18.27	N
ATOM	63	CA	ALA		20	13.105	17.946	15.719	1.00 17.82	С
ATOM	64	c	ALA		20	12.923	19.074	16.711	1.00 18.90	C

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MOTA	65	0	ALA		20 .	12.977	20.244	16.352	1.00			0
MOTA	66	CB	ALA		20	11.777	17.661	15.059	1.00			C
MOTA	67	N	asn		21	12.677	18.787	17.979	1.00			N
ATOM	68	CA	ASN		21	12.450	19.852	18.933	1.00			C
MOTA	69	C	asn		21	13.695	20.161	19.771	1.00			C
ATOM	70	0_	ASN		21	13.627	20.909	20.741	1.00			0
ATOM	71	CB	ASN		21	11.235	19.456	19.751	1.00			C
ATOM	72	CG	ASN		21	10.409	20.664	20.103	1.00			C
MOTA	73		ASN		21	10.157	21.501	19.250	1.00			0
ATOM	74		ASN		21	9.983 14.851	20.853 19.615	21.359 19.399	1.00	25.03 18.22		n N
MOTA	75 '	N	LEU		22 22	16.129	19.924	20.000		17.27		C
ATOM .	76	CA	LEU		22	17.023	20.733	19.051		19.37		č
ATOM	77 78	0	LEU		22	17.001	20.468	17.851		19.69		õ
ATOM		СВ	LEU		22	16.856	18.631	20.432		16.17		č
MOTA	79 80	CG	LEU		22	16.342	17.790	21.598		14.77		č
MOTA	81		LEU		22	17.058	16.447	21.768		14.07		č
ATOM ATOM	82		LEU		22	16.463	18.606	22.862		11.82	* .	č
ATOM	83	N	PRO		23	17.833	21.728	19.457		19.42		Ň
MOTA	84	CA	PRO		23	18.655	22.511	18.537		19.17		С
ATOM	85	Č.	PRO		23	19.694	21.621	17.878		20.53		Ċ
ATOM	86	ŏ	PRO		23	20.318	20.832	18.575	1.00	21.23		0
ATOM	87	СВ	PRO		23	19.341	23.488	19.459	1.00	18.21		C
ATOM	88	CG	PRO	A	23	18.549	23.480	20.755	1.00	16.10		C
ATOM	89	CD	PRO		23	18.206	22.015	20.846	1.00	17.73		C
MOTA	90	N	LYS	A	24	19.959	21.716	16.571		23.65		N
MOTA	91	CA	LYS	A	24	20.937	20.852	15.866		27.23		C
MOTA	92	C	LYS	A	24	22.388	20.847	16.370		25.36		C
MOTA	93	0	LYS	A	24	23.179	19.918	16.149		25.16		0
ATOM	94	CB	LYS		24	20.931	21.150	14.332		29.02		Č
MOTA	95	CG	Lys		24	19.550	20.939	13.680		36.19	•	Č
MOTA	96	CD	LYS		24	19.557	21.512	12.245		43.22		c
MOTA	97	CE	LYS		24	18.207	21.800	11.585		42.88		N
MOTA	98	NZ	LYS		24	18.433	22.694	10.448		48.02		N
MOTA	99	N	ASP		25	22.712	21.900 22.087	17.110 17.653		26.32 28.70		Ĉ
MOTA	100	CA	ASP		25	24.060 24.209	22.024	19.180		26.91		č
ATOM	101	C	ASP		25 25	25.225	22.386	19.785		27.43		õ
MOTA	102	O CB	ASP ASP		25	24.551	23.433	17.144		30.59	•	č
ATOM	103 104	CB CG	ASP		25	23.780	24.615	17.684		33.09		Č
MOTA MOTA	105		ASP		25	22.556	24.529	17.847		34.74		Ō
ATOM	106		ASP	_	25	24.421	25.638	17.933		37.53		0
ATOM	107	N	TYR		26	23.122	21.605	19.808	1.00	24.09		N
ATOM	108	CA	TYR		26	23.165	21.289	21.189	1.00	20.96		C
ATOM	109	C	TYR		26	23.821	19.937	21.246	1.00	20.04	•	C
ATOM	110	ŏ	TYR		26	23.282	18.951	20.780	1.00	22.61		0
ATOM	111	СВ	TYR		26 .	21.759	21.239	21.710		20.00		C
ATOM	112	CG	TYR	A	26	21.728	20.927	23.199		23.05		C
ATOM	113	CD1	TYR	A	26	22.430	21.764	24.039		20.56		C
MOTA	114		TYR		26	21.015	19.843	23.683		22.87		C
ATOM	115	CE1	TYR	A	26	22.421	21.541	25.376				c
MOTA	116	CE2	TYR	A	26	20.993	19.629	25.047		22.41		Č
ATOM	117	CZ	TYR		26	21.693	20.493	25.877		23.68		C
MOTA	118	OH	TYR		26	21.661	20.353	27.259		22.67		0
HETATM	119	N	MSE		27	25.003	19.890	21.809		21.07 21.95		N
HETATM	120	CA	MSE		27	25.716	18.643	22.008		21.95		C
HETATM	121	C	MSE		27	25.325	17.906	23.296 24.371		22.77		ò
HETATM	122	0	MSE		27	25.089	18.481 18.955	22.055		27.32		č
HETATM	123	CB	MSE		27	27.201 27.695	19.788	20.866		28.96	•	č
HETATM	124	CG	MSE	A	27	21.033	13.700	20.000	2.50	_0.50		~

HETATM	125	SE	MSE	A	27	27.207	18.877	19.234	1.00 37.24	SE
HETATM	126	CE	MSE	A	27	28.489	17.511	19.371	1.00 26.83	С
ATOM	127	N	ILE		28	25.250	16.576	23.165	1.00 22.91	Ň
ATOM	128	CA	ILE		28	24.860	15.666	24.240	1.00 21.29	С
MOTA	129	C	ILE	A	28	26.030	14.713	24.494	1.00 21.02	С
ATOM	130	0	ILE	A	28	26.530	14.075	23.571	1.00 20.97	0
ATOM	131	CB	ILE	A	28	23.550	14.901	23.870	1.00 19.78	Ċ
	132		ILE		28	22.372	15.818	23.534	1.00 17.37	č
MOTA										
ATOM	133		ILE		28	23.147	14.006	25.006	1.00 18.93	С
MOTA	134	CD1	ILE	A	28	21.207	15.120	22.805	1.00 16.08	C
ATOM	135	N	THR	A	29	26.492	14.597	25.744	1.00 20.17	· N
ATOM	136	CA	THR	A	29	27.592	13.727	26.087	1.00 20.16	С
ATOM	137	C	THR		29	27.065	12.315	26.319	1.00 20.21	ċ
						26.051	12.081	26.988		ŏ
ATOM	138	0_	THR		29				1.00 19.29	
ATOM	139	CB	THR		29	28.269	14.295	27.333	1.00 21.22	. <b>C</b>
ATOM	140	QG1	THR	A	29	28.515	15.655	27.048	1.00 24.08	0
ATOM 5	141	CG2	THR	A	29	29.593	13.644	27.634	1.00 23.19	С
ATOM	142	N	LEU		30	27.767	11.369	25.708	1.00 18.56	N
			LEU		30	27.462	9.976	25.862	1.00 17.76	Ċ
ATOM	143	CA								
ATOM	144	С	LEU		30	28.824	9.351	25.959	1.00 18.41	Ç
MOTA	145	0	LEU	A	30	29.738	9.774	25.283	1.00 20.72	0
ATOM	146	CB	LEU	A	30	26.649	9.396	24.642	1.00 19.78	C ·
ATOM	147	CG	LEU	A	30	26.350	7.884	24.473	1.00 14.53	· c
			LEU		30	25.475	7.478	25.601	1.00 18.04	. C
ATOM	148									Č
MOTA	149		LEU		30	25.629	7.525	23.205	1.00 14.92	
ATOM	150	N	LYS	A	31	28.984	8.378	26.833	1.00 18.64	n
MOTA	151	CA	LYS	A	31	30.176	7.575	26.918	1.00 20.71	С
ATOM	152	С	LYS	A	31	29.940	6.417	25.999	1.00 21.51	С
ATOM	153	ō	LYS		31	28.966	5.701	26.170	1.00 23.02	0
					31	30.411	7.009	28.295	1.00 19.63	č
MOTA	154	CB	LYS							č
MOTA	155	CG	LYS		31 .	30.788	8.066	29.309	1.00 25.85	C
MOTA	156	CD	LYS	A	31	31.154	7.355	30.605	1.00 29.83	С
ATOM	157	CE	LYS	A	31	31.652	8.305	31.675	1.00 32.89	С
ATOM	158	NZ	LYS	A	31	32.116	7.506	32.799	1.00 39.63,	
	159	N	TYR		32	30.845	6.219	25.034	1.00 24.83	N
ATOM							5.424	23.844	1.00 22.31	č
MOTA	160	CA	TYR		32 ·	30.565				
MOTA	161	С	TYR		32	31.607	4.359	23.767	1.00 19.55	C
MOTA	162	0	TYR	A	32	32.759	4.667	23.946	1.00 22.18	0
MOTA	163	CB	TYR	A	32	30.569	6.367	22.640	1.00 25.12	Ċ
ATOM	164	CG	TYR		32	30.557	5.725	21.262	1.00 27.46	C
			TYR		32	31.790	5.449	20.689	1.00 26.41	č
ATOM	165						5.437	20.613	1.00 26.10	c c
MOTA	166		TYR		32	29.369				Š
ATOM	167		TYR		32	31.871	4.860	19.452	1.00 27.56	Ċ
ATOM	168	CE2	TYR	A	32	29.462	4.854	19.356	1.00 29.60	C
MOTA	169	CZ	TYR	Α	32	30.710	4.589	18.787	1.00 28.41	C
ATOM	170	OH	TYR		32	30.844	4.087	17.501	1.00 32.61	0
		N	VAL		33	31.217	3.108	23.604	1.00 20.21	. N
ATOM	171							23.453	1.00 22.23	
MOTA	172	CA	VAL		33	32.138	2.022			c
MOTA	173	С	VAL	A	33	32.829	2.212	22.110	1.00 24.20	C
MOTA	174	0	VAL	A	33	32.156	2.231	21.078	1.00 24.76	. 0
MOTA	175	CB	VAL	A	33	31.400	0.676	23.549	1.00 23.11	C
	176		VAL		33	32.297	-0.537	23.309	1.00 22.36	C
MOTA							0.535	24.951	1.00 25.26	č
MOTA	177		VAL		33	30.857				
MOTA	178	N	PRO	A	34	34.158	2.380	22.078	1.00 25.19	N
MOTA	179	CA	PRO	A	34	34.921	2:477	20.834	1.00 27.43	C
ATOM	180	C	PRO		34	34.727	1.263	19.907	1.00 27.77	C
	181	ŏ	PRO		34	34.907	0.101	20.291	1.00 27.65	. C
ATOM						36.381	2.586	21.335	1.00 29.54	č
ATOM	182	CB	PRO		34					ž
MOTA	183	CG	PRO		34	36.224	3.056	22.773	1.00 26.93	C
ATOM	184	CD	PRO	A	34	35.043	2.269	23.245	1.00 23.54	C

ATOM	185	N	GLY	A	35	34.312	1.550	18.666	1.00 28.92	N
ATOM	186	CA	GLY		35	34.175	0.517	17.650	1.00 28.59	C
ATOM	187	Ċ.	GLY		35	32.886	-0.277	17.715	1.00 28.76	Č
ATOM	188	ŏ	GLY			32,743	-1.224	16.957	1.00 29.41	ŏ
					36	31.923	0.064	18.569	1.00 27.95	Ň
HETATM	189	N	MSE							
HETATM	190	CA	MSE		36	30.612	-0.561	18.587	1.00 28.65	c
HETATM	191	С.	MSE		36	29.809	-0.477	17.276	1.00 28.45	Ç
HETATM	192	0	MSE		36	28.824	-1.189	17.098	1.00 26.26	0
HETATM	193	CB	MSE	A	36	29.774	0.036	19.739	1.00 32.71	- C
HETATM	194	CG	MSE	A	36	29.232	1.427	19.485	1.00 34.05	С
HETATM	195	SE	MSE	A	36	27.946	2.252	20.676	1.00 36.59	SE
HETATM	196	CE	MSE	A	36	26.309	1.728	19.841	1.00 26.94	c
ATOM	197	N	ASP	A	37	30.212	0.393	16.338	1.00 30.42	N
ATOM	198	CA	ASP		37	29.736	0.418	14.935	1.00 30.74	. С
ATOM	199	c	ASP		37	30.051	-0.794	14.038	1.00 27.32	С
ATOM	200	ŏ	ASP		37	29.344	-1.054	13.064	1.00 28.97	ō
ATOM	201	CB	ASP		37	30.200	1.716	14.234	1.00 33.15	Č
			ASP		37	31:706	1.960	14.294	1.00 35.22	· č
ATOM	202	CG				32.230	2.247	15.374	1.00 42.04	ŏ
MOTA	203		ASP		37		1.875		1.00 34.84	ŏ.
MOTA	204		ASP		37	32.369		13.275		
MOTA	205	N	VAL		38	31.054	-1.584	14.381	1.00 23.11	N
MOTA	206	CA	VAL		38	31.471	-2.713	13.566	1.00 23.69	c
MOTA	207	C	VAL	A	38	31.568	-4.045	14.389	1.00 26.12	C
ATOM	208	0	VAL	A	38	31.649	-5.172	13.882	1.00 27.25	0
ATOM	209	CB	VAL	A	38	32.741	-2.089	12.936	1.00 19.85	Ç
MOTA	210	CG1	VAL	A	38	34.023	-2.366	13.647	1.00 16.55	С
ATOM	211	CG2	VAL	A	38	32.825	-2.379	11.512	1.00 19.54	. <b>C</b>
ATOM	212	N	LEU	A	39	31.464	-3.968	15.728	1.00 26.26	'n
MOTA	213	CA	LEU	A	39	31.505	-5.113	16.640	1.00 26.07	~ <b>C</b>
ATOM	214	C	LEU		39	30.149	-5.788	16.888	1.00 25.48	· C
ATOM	215	ŏ	LEU		39	29.130	-5.109	16.842	1.00 23.47	. 0
ATOM	216	СВ	LEU		39	32.061	-4.671	18.014	1.00 25.49	С
ATOM	217	CG	LEU		39	33.515	-4.307	18.156	1.00 27.97	С
MOTA	218		LEU		39	33.729	-3.645	19.510	1.00 30.79	C
			LEU		39	34.399	-5.522	17.940	1.00 23.69	Ċ
MOTA	219				40	30.017	-7.086	17.192	1.00 25.65	. N
MOTA	220	N	PRO			28.734	-7.665	17.563	1.00 27.77	Ċ
MOTA	221	CA	PRO		40	28.061	-7.004	18.792	1.00 27.59	č
MOTA	222	c	PRO		40		-6.411	19.658	1.00 26.55	Ď
MOTA	223	0	PRO		40	28.710				č
MOTA	224	CB	PRO		40	29.102	-9.122	17.683	1.00 27.41	2
MOTA	225	CG	PRO		40	30.584	-9.150	18.015	1.00 26.93	000
MOTA	226	CD	PRO		40	31.076	-8.082	17.099	1.00 26.35	
ATOM	227	N	SER	A	41	26.724	-7.026	18.830	1.00 27.40	N
MOTA	228	CA	SER	A	41	26.003	-6.235	19.806	1.00 26.79	Ċ
MOTA	229	С	SER	A	41	26.288	-6.707	21.202	1.00 27.70	C
ATOM	230	0	SER	A	41	26.451	-5.903	22.097	1.00 29.20	0
ATOM	231	CB	SER	Α	41	24.540	-6.240	19.558	1.00 23.46	С
ATOM	232	OG	SER	A	41	24.074	-7.559	19.691	1.00 25.42	0
ATOM	233	N	HIS		42	26.526	-8.007	21.355	1.00 29.95	N
ATOM	234	CA	HIS		42	26.853	-8.594	22.636	1.00 30.32	С
	235	c	HIS		42	28.076	-7.971	23.312	1.00 29.42	C
MOTA		-	HIS		42	28.270	-8.138	24.524	1.00 28.56	. 0
ATOM	236	O	HIS		42		-10.109	22.451	1.00 35.10	Č
ATOM	237	СВ					-10.616	21.997	1.00 39.36	č
ATOM	238	CG	HIS		42				1.00 43.05	N
MOTA	239		HIS		42		-10.993	22.752		C
MOTA	240		HIS		42		-10.644	20.694	1.00 42.30	Č
MOTA	241		HIS		42		-11.198	21.971	1.00 42.05	Č
MOTA	242	NE2	HIS		42		-10.969	20.735	1.00 41.31	N
MOTA	243	N	CYS	A	43	28.888	-7.246	22.533	1.00 26.69	N
ATOM	244	CA	CYS		43	30.112	-6.657	23.037	1.00 29.55	С

ATOM	245	С	CYS	A	43	29.916	-5.341	23.766	1.00 29.31	С
ATOM	246	0	CYS	A	43	30.779	-4.912	24.512	1.00 31.36	0
MOTA	247	CB	CYS	Α	43	31.140	-6.395	21.915	1.00 31.15	С
ATOM	248	SG	CYS	A	43	31.674	-7.929	21.120	1.00 35.60	S
ATOM	249	N	TRP	A	44	28.813	-4.637	23.555	1.00 28.24	N
ATOM	250	CA	TRP	A	44	28.704	-3.240	23.952	1.00 25.54	C
MOTA	251	С	TRP	A	44	27.331	-2.947	24.498	1.00 25.35	C
ATOM	252	0	TRP	A	44	27.173	-1.924	25.113	1.00 28.50	0
ATOM	253	CB	TRP	A	44	28.965	-2.299	22.746	1.00 22.52	С
MOTA	254	CG	TRP		44	28.207	-2.626	21.450	1.00 20.09	С
MOTA	255		TRP		44	28.851	-3.316	20.455	1.00 19.03	· c
MOTA	256		TRP		44	26.890	-2.326	21.142	1.00 20.02	C
MOTA	257	-	TRP		44	27.948	-3.464	19.527	1.00 20.48	N
MOTA	258	CE2	TRP		44	26.791	-2.877	19.882	1.00 19.41	ç
ATOM	259	CE3	TRP		44	25.841	-1.609	21.652	1.00 18.83	c
MOTA	260	CZ2	TRP		44	25.665	-2.678	19.127	1.00 16.33	C C
ATOM	261	CZ3	TRP		44	24.711	-1.431	20.910	1.00 16.81	
ATOM .	262	CH2	TRP		44	24.617	-1.962	19.653	1.00 17.88	<u> </u>
MOTA	263	N	ILE		45	26.328	-3.786	24.275	1.00 27.39	и С
ATOM	264	CA	ILE		45	24.934	-3.500	24.540	1.00 28.48	c
ATOM	265	C	ILE		45		3.370	26.025	1.00 29.97	Ö
MOTA	266	0	ILE		45	23.770	-2.622 -4.601	26.389 23.904	1.00 31.30 1.00 28.39	č
MOTA	267	CB	ILE		45	24.055 · 22.603	-4.220	23.795	1.00 28.24	č
ATOM	268		ILE		45	24.152	-5.926	24.668	1.00 28.54	· č
ATOM	269		ILE		45 45	22.371	-2.868	23.098	1.00 30.38	č
ATOM	270		SER		46	25.408	-4.044	26.900	1.00 30.95	n
ATOM	271 272	N CA	SER		46	25.200	-3.897	28.337	1.00 32.47	Ċ
ATOM	273	C	SER		46	25.677	-2.546	28.844	1.00 30.61	Č
ATOM ATOM	274	Ö.	SER		46	24.974	-1.880	29.597	1.00 30.88	ō
ATOM	275	CB	SER		46	25.899	-5.016	29.106	1.00 35.61	Ċ
ATOM	276	OG	SER		46		-6.311	28.746	1.00 43.59	0
ATOM	277	N	GLU		47	26.840	-2.123	28.370	1.00 28.57	N
ATOM	278	CA	GLU		47	27.355	-0.823	28.680	1.00 28.90	С
ATOM	279	c	GLU		47	26.567	0.306	28.090	1.00 27.44	C
MOTA	280	ŏ	GLU		47	26.383	1.323	28.735	1.00 28.17	. 0
MOTA	281	CB	GLU		47	28.791	-0.702	28.244	1.00 30.74	С
ATOM	282	CG	GLU		47	29.439	0.554	28.818	1.00 34.60	C
ATOM	283	CD	GLU	A	47	29.550	0.665	30.351	1.00 37.52	Ç
ATOM	284	OE1	GLU	A	47	28.998	-0.153	31.107	1.00 37.54	o
ATOM	285	OE2	GLU	A	47	30.208	1.607	30.800	1.00 38.33	0
HETATM	286	N	MSE	A	48	26.073	0.098	26.879	1.00 27.89	N
HETATM	287	CA	MSE	A	48	25.327	1.113	26.154	1.00 28.18	Ç
HETATM	288	С	MSE		48	23.945	1.421	26.667	1.00 26.21	C
HETATM	289	0	MSE		48	23.580	2.578	26.606	1.00 27.02	0
HETATM	290	CB	MSE		48	25.309	0.882	24.637	1.00 29.23	C
HETATM	291	CG	MSE		48	26.739	1.048	24.095	1.00 28.12	C
HETATM	292	SE	MSE		48	27.685	2.655	24.690	1.00 35.61	SE
HETATM	293	CE	MSE		48	26.476	3.857	23.743	1.00 22.58	C N
MOTA	294	N	VAL		49	23.147	0.491	27.195	1.00 27.65 1.00 27.43	C
ATOM	295	CA	VAL		49	21.882	0.875	27.814 29.115	1.00 27.43	c
ATOM ·	296	Č	VAL		49	22.017	1.680 2.595	29.115	1.00 27.42	Ö
MOTA	297	0	VAL		49	21.224	-0.284	27.907	1.00 27.18	Č
MOTA	298	CB	VAL		49	20.884 20.438	-0.478	26.452	1.00 27.18	c
MOTA	299		VAL		49	21.421	-1.534	28.610	1.00 23.66	
MOTA	300	CG2			49	23.100	1.370	29.847	1.00 26.26	N
MOTA	301	N	VAL VAL		50 50	23.469	2.060	31.068	1.00 24.75	· Ĉ
MOTA	302	CA	VAL		50 50	23.964	3.431	30.716	1.00 25.57	č
MOTA	303 304	C	VAL		50	23.485	4.384	31.320	1.00 28.77	ŏ
MOTA	200	U	AVE	~	50	23.103			<del></del>	. •

ATOM	305	CB	VAL	A	50	24.545	1.307	31.812	1.00 24.44		С
ATOM	306	CG1	VAL	A	50	25.062	2.106	32.969	1.00 23.79		Ç
ATOM	307	CG2	VAL	A	50	23.952	0.040	32.382	1.00 24.17		C
ATOM	308	N	GLN	A	51	24.888	3.551	29.758	1.00 22.88		N
MOTA	309	CA	GLN	A	51	25.315	4.841	29.294	1.00 18.59		C
ATOM	310	С	GLN	A	51	24.226	5.698	28.700	1.00 18.17		С
MOTA	311	0	GLN	A	51	24.223	6.904	28.948	1.00 20.05		0
ATOM	312	CB	GLN	A	51	26.474	4.707	28.320	1.00 21.19		C
ATOM	313	CG	GLN	A	51	27.676	4.059	28.934	1.00 17.37	•	C
MOTA	314	CD	GLN	A	51	28.072	4.720	30.240	1.00 21.56		C
ATOM	315	OE1	GLN	A	51	27.879	5.913	30.476	1.00 23.67		0
MOTA	316	NE2	GLN	A	51	28.662	3.969	31.152	1.00 22.77	•	N
ATOM	317	N	LEU	A	52	23.291	5.106	27.959	1.00 15.38		N
MOTA	318	CA	LEU	A	52	22.210	5.850	27.374	1.00 16.72		С
ATOM .	319	С	LEU	A	52	21.199	6.284	28.411	1.00 18.34		C
MOTA	320	0	LEU	A	52	20.676	7.387	28.382	1.00 18.73		0
ATOM	321	CB	LEU	A	52	21.533	5.006	26.309	1.00 15.91		C
ATOM	322	CG	LEU	A	52	22.207	5.059	24.928	1.00 17.11		C
ATOM	323	CD1	LEU	A	52	21.807	3.849	24.155	1.00 14.42		C
ATOM	324	CD2	LEU	A	52	21.886	6.330	24.184	1.00 12.26		C
MOTA	325	N	SER	A.	53	20.932	5.433	29.378	1.00 20.83	•	N
ATOM	326	CA	SER	A	53	20.098	5.806	30.505	1.00 23.79		C
MOTA	327	С	SER	A	53	20.716	6.966	31.295	1.00 24.20		C
MOTA	328	0	SER	A	53	19.977	7.897	31.624	1.00 26.42		0
ATOM	329	CB	SER	A	53	19.917	4.605	31.403	1.00 23.71		Ç
MOTA	330	OG	SER	A	53	19.285	5.024	32.601	1.00 30.23		0
MOTA	331	N	ASP	A	54	22.043	6.977	31.559	1.00 23.25		N
MOTA	332	CA	ASP	A	54	22.687	8.036	32.308	1.00 20.61		C
MOTA	333	С	ASP	A	54	22.659	9.325	31.572	1.00 19.02		C
MOTA	334	0	ASP	A	54	22.303	10.358	32.142	1.00 20.41	•	0
ATOM	335	CB	asp	A	54	24.114	7.682	32.740	1.00 25.54	•	C
MOTA	336	CG	asp	A	54	24.207	6.579	33.815	1.00 31.33		C
ATOM	337		ASP		54	23.185	5.965	34.178	1.00 36.02		0
MOTA	338		ASP		54	25.318	6.318	34.307	1.00 32.62		0
MOTA	339	N	SER		55	22.962	9.286	30.291	1.00 16.79		N
MOTA	340	CA	SER		55	22.857	10.514	29.541	1.00 17.42		Č
MOTA	341	Ç	SER		55	21.454	11.096	29.425	1.00 16.81		C
MOTA	342	0	SER		55	21.293	.12.318	29.474	1.00 17.95		0
MOTA	343	CB	SER		55	23.511	10.378	28.150	1.00 18.91		C
ATOM	344	OG	SER		55	24.863	9.936		1.00 22.06		0
MOTA	345	N	LEU		56	20.439	10.249	29.243	1.00 17.01		N C
MOTA	346	CA	LEU		56	19.073	10.726	29.162	1.00 17.99		C
MOTA	347	C	LEU		56	18.518	11.188	30.514	1.00 18.27	•	Ö
ATOM	348	0	LEU		56	17.800	12.186	30.575	1.00 18.82		Č
ATOM	349	CB	LEU		56	18.130	9.712	28.505	1.00 17.68		c
ATOM	350	CG	LEU		56	18.061	9.584	26.983	1.00 18.44		Č
MOTA	351		LEU		56	17.381	8.280	26.613	1.00 19.03		Č
MOTA	352		LEU		56	17.392	10.764	26.321	1.00 16.39		N
ATOM	353	N	THR		57	18.835	10.532	31.616	1.00 18.45		C
ATOM	354	CA	THR		57	18.376	11.005	32.911	1.00 21.42		č
MOTA	355	C	THR		57	18.975	12.383	33.205	1.00 21.42 1.00 21.53		Ö
ATOM	356	0	THR		57	18,263	13.287	33.640	1.00 21.33		C
MOTA	357	CB	THR		57	18.680	9.942	33.948			Ö
ATOM	358		THR		57	18.055	8.791	33.418 35.253	1.00 20.01 1.00 23.58		C
MOTA	359		THR		57	17.980	10.190				N
MOTA	360	N	ASP		58	20.245	12.587	32.819	1.00 23.66		C
MOTA	361	CA	ASP		58	20.908	13.867	32.971 32.162	1.00 24.99 1.00 23.11		C
ATOM	362	C	ASP		58	20.269	14.969	32.162	1.00 23.11		Ö
MOTA	363	<u>_</u>	ASP		58	20.243	16.133	32.567	1.00 22.69		C
ATOM	364	CB	ASP	A	58	22.410	13.766	340.040	1.00 33.60		C

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ATOM	365	CG	ASP	A	58	23.101	15.151	32.595	1.00 41.66	
ATOM	366	OD1	ASP	A	58	23.500	15.636	33.666	1.00 45.37	
ATOM	367	OD2	ASP		58	23.204	15.764	31.502	1.00 43.30	
MOTA	368	N	LEU		59	19.762	14.614	30.994	1.00 21.38	
ATOM	369	CA	LEU		59	19.106	15.568	30.124	1.00 19.63	
MOTA	370	C	LEU		59	17.857	16.179	30.719	1.00 20.35	
MOTA	371	0	LEU		59	17.522	17.321	30.413	1.00 19.57	
MOTA	372	CB	LEU		59	18.751	14.826	28.859	1.00 19.31	
MOTA	373	CG	LEU		59	19.006	15.498	27.551	1.00 18.41	
MOTA	374	CD1	LEU	A	59	20.161	16.496	27.615 26.555	1.00 16.32 1.00 17.59	
MOTA	375		LEU		59	19.225 17.163	14.401 15.410	31.587	1.00 21.63	
MOTA	376	N .	LEU		60	15.930	15.857	32.216	1.00 20.55	
ATOM	377	CA	LEU		60 60	16.133	17.147	32.974	1.00 22.32	
ATOM	378	Ç	LEU		60	15.264	18.016	32.929	1.00 23.28	
MOTA	379	О СВ	LEU		60	15.389	14.796	33.145	1.00 17.67	
MOTA	380 381	œ	LEU		60	14.680	13.601	32.538	1.00 14.57	
MOTA	382		LEU		60	14.293	12.641	33.643	1.00 12.83	
ATOM ATOM	383		LEU		60	13.462	14.048	31.847	1.00 8.22	
ATOM	384	N	ASP		61	17.338	17.285	33.558	1.00 22.42	
MOTA	385	CA	ASP		61	17.805	18.483	34.247	1.00 22.10	
ATOM	386	č	ASP		61 ·	17.810	19.768	33.433	1.00 20.08	
ATOM	387	ŏ	ASP		61	17.841	20.870	33.974	1.00 20.02	•
MOTA	388	CB	ASP	A	61	19.203	18.169	34.753	1.00 28.60	
ATOM	389	CG	ASP	A	61	19.803	19.159	35.750	1.00 34.29	
ATOM	390	OD1	ASP	Α	61	19.459	19.073	36.931	1.00 40.97	
ATOM	391	OD2	ASP		61	20.616	20.006	35.356	1.00 37.85	
ATOM	392	N	LYS		62	17.721	19.693	32.105	1.00 19.76	
MOTA	393	CA	LYS		62	17.839	20.862	31.245	1.00 16.53	
MOTA	394	C	LYS		62	16.485	21.335	30.770	1.00 16.75	
MOTA	395	0	LYS		62	16.388	22.383	30.130 30.020	1.00 17.62 1.00 18.65	
MOTA	396	CB	LYS		62	18.684	20.529 19.755	30.233	1.00 16.80	
MOTA	397	CG	LYS		62	19.986 20.808	20.483	31.276	1.00 18.07	
MOTA	398	CD	LYS		62	22.135	19.776	31.535	1.00 23.34	
MOTA	399	CE	LYS LYS		62 62	22.088	18.331	31.330	1.00 28.06	
MOTA	400	nz N	PHE		63	15.400	20.605	31.068	1.00 16.40	
ATOM	401 402	CA	PHE		63	14.086	20.979	30.586	1.00 16.93	
ATOM	403	C	PHE		63	13.110	21.140	31.730	1.00 17.40	
ATOM ATOM	404	ō	PHE		63	13.294	20.626	32.826	1.00 17.50	
ATOM	405	CB	PHE		63	13.576	19.942	29.574	1.00 15.08	
MOTA	406	CG	PHE		63	14.424	19.850	28.325	1.00 13.39	
ATOM	407		PHE		63	14.261	20.767	27.317	1.00 13.60	
ATOM	408		PHE		63	15.410	18.888	28.252	1.00 14.95	
ATOM	409	CE1	PHE	A	63	15.126	20.740	26.266	1.00 10.99	
ATOM	410	CE2	PHE		63	16.305	18.889	27.207	1.00 14.45	
ATOM	411	CZ	PHE	A	63	16.150	19.832	26.229	1.00 10.95	
MOTA	412	N	SER		64	12.031	21.843	31.444	1.00 19.14	
MOTA	413	CA	SER		64	10.993	22.080	32.407	1.00 21.71 1.00 22.87	
MOTA	414	С	SER		64	9.832	21.125	32.198 31.098		
MOTA	415	0	SER	A	64	9.431	23.508	32.261	1.00 22.47	
MOTA	416	CB	SER		64	10.533	23.881	33.049	1.00 29.46	
MOTA	417	OG	SER		64	9.408 9.298	20.809	33.363	1.00 23.97	
MOTA	418	N	ASN		65 65	8.233	19.855	33.608	1.00 29.13	
MOTA	419	CA	ASN		65 65	6.899	20.530	33.390	1.00 31.34	
MOTA	420	Č	ASN		65 65	5.883	19.858	33.203	1.00 35.27	•
MOTA	421	0	ASN		65 65	8.309	19.551	35.119	1.00 30.43	
MOTA	422	CB	asn Asn		65	8.097	18.117	35.514	1.00 33.16	
MOTA	423	CG	ASN ASN		65	7.488	17.258	34.873	1.00 41.60	
MOTA	424	-ULL	-W41				=			

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MOTA	425	ND2	ASN A	65	8.641	17.823	36.656	1.00 34.77	
MOTA	426	N	ILE A	66	6.892	21.862	33.561	1.00 32.62	
MOTA	427	CA	ILE A	66	5.708	22.691	33.384	1.00 33.83	
MOTA	428	С	ILE A	66	5.681	23.071	31.918	1.00 35.58	
MOTA	429	0	ILE A	66	6.450	23.910	31.431	1.00 36.08	
MOTA	430	CB	ILE A	66	5.752	24.000	34.223	1.00 33.21	
MOTA	431	CG1	ILE A	66	6.162	23.831	35.672	1.00 33.50	•
MOTA	432	CG2	ILE A	66	4.416	24.708	34.158	1.00 31.21	
MOTA	433	CD1	ILE A	66	5.330	22.784	36.415	1.00 32.37	
ATOM	434	N	SER A	67	4.782	22.424	31.201	1.00 37.23	
MOTA	435	CA	SER A	67	4.669	22.650	29.771	1.00 40.50	
ATOM	436	С	SER A	67	3.358	22.008	29.327	1.00 42.07	
MOTA	437	0	SER A	67	3.073	20.841	29.622	1.00 43.86	
MOTA	438	CB	SER A	67	5.892	21.985	29.075	1.00 40.62	
ATOM	439	OG	SER A	67	6.244	22.539	27.815	1.00 36.76	
MOTA	440	N	GLU A	68	2.502	22.765	28.648	1.00 44.40	
MOTA	441	CA	GLU A	68	1.317	22.183	28.023	1.00 46.43	
ATOM	442	С	GLU A	68	1.777	21.448	26.758	1.00 46.20	
ATOM	443	0	GLU A	68	2.874	21.690	26.234	1.00 47.39	
MOTA	444	CB	GLU A	68	0.364	23.301	27.637	1.00 49.01	
MOTA	445	CG	GLU A	68	-1.051	22.858	27.256 28.324	1.00 56.12	
MOTA	446	CD	GLU A	68	-2.066	23.229 22.391	29.223	1.00 58.37	
MOTA	447		GLU A		-2.255	24.342	28.250	1.00 56.09	
MOTA	448		GLU A		-2.634 0.957	20.523	26.262	1.00 45.44	
MOTA	449		GLY A		1.228	19.834	25.021	1.00 43.62	
MOTA	450	CA	GLY A		2.561	19.130	25.029	1.00 42.33	
MOTA	451	Č	GLY A		2.944	18.429	25.963	1.00 43.42	
ATOM	452	0	LEU A		3.245	19.412	23.927	1.00 42.01	
MOTA	453	N CA	LEU A		4.567	18.856	23.634	1.00 40.66	
MOTA	454 455	c	LEU A		5.570	19.283	24.688	1.00 37.48	
ATOM	456	Õ	LEU A		5.769	20.477	24.916	1.00 39.56	
MOTA MOTA	457	СВ	LEU A		5.069	19.339	22.221	1.00 42.73	
ATOM	458	CG	LEU A		6.365	18.753	21.553	1.00 43.68	
ATOM	459		LEU A		6.429	17.212	21.539	1.00 40.99	
ATOM	460		LEU A		6.506	19.318	20.134	1.00 42.81	
ATOM	461	N	SER A		6.203	18.289	25.301	1.00 32.14	
ATOM	462	CA	SER A	71	7.187	18.514	26.330	1.00 24.30	
ATOM	463	С	SER A		8.394	17.653	26.032	1.00 20.06	
ATOM	464	0	SER A		8.282	16.449	25.900	1.00 21.51	
ATOM	465	CB	SER A		6.519	18.160	27.653	1.00 21.80 1.00 17.14	
MOTA	466	OG	SER A		7.393	18.171	28.756 25.883	1.00 18.83	
MOTA	467	N	ASN A		9.573	18.208 17.419	25.827	1.00 16.99	
MOTA	468	CA	ASN A		10.787	16.692	27.083	1.00 15.54	
MOTA	469	C	ASN A		11.079 11.566	15.578	26.997	1.00 16.64	•
MOTA	470	0_	ASN A		11.982	18.277	25.558	1.00 20.15	
ATOM	471	CB	ASN A		11.916	18.839	24.158	1.00 23.44	
MOTA.	472	CG	ASN A		11.109		23.317	1.00 25.67	
MOTA	473	OD1	. asn a ! asn a		12.780			1.00 24.59	
MOTA	474		TYR A		10.823	17.309			
MOTA	475	N	TYR A		10.835	<del>-</del>			
MOTA	476	CA C	TYR A		9.986				
ATON	477	Ö	TYR A		10.538				
MOTA MOTA	478 479	СВ	TYR A	-	10.315				
	480	CG	TYR A		10.760	16.862	32.082		
MOTA MOTA	481	CDI			11.940		32.624		
ATOM	482	CD2	_	-	9.993	15.928			
MOTA	483	CE			12.364			1.00 12.67	
MOTA	484	CE	TYR F		10.412	15.419	33.979	1.00 10.24	

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MOTA	485	CZ	TYR A	73	11.592	15.891	34.491	1.00 14.02	
MOTA	486	OH.	TYR A	73	12.042	15.429	35.703	1.00 14.54	
MOTA	487	N	SER A	74	8.682	15.323	29.087	1.00 18.48	
MOTA	488	CA	SER A	74	7.947	14.076	29.034	1.00 18.74	
ATOM	489	C	SER A	74	8.429	13.074	28.017	1.00 18.80	
ATOM	490	0_	SER A	74	8.430	11.882	28.327	1.00 18.69	
ATOM	491	CB	SER A	74	6.434	14.228	29.002 28.253	1.00 21.96 1.00 30.65	
MOTA	492	OG	SER A	74	5.847	15.278 13.522	26.849	1.00 30.05	
MOTA	493	N	ILE A	75	8.928	12.602	25.855	1.00 17.82	
MOTA	494	CA	ILE A	75 75	9.481 10.689	11.896	26.422	1.00 17.12	
MOTA	495	C	ILE A	75 75	10.679	10.688	26.557	1.00 18.03	
ATOM	496	O CB	ILE A	75	9.750	13.298	24.460	1.00 20.42	
MOTA	497 498	CG1	ILE A	75	8.440	13.885	23.860	1.00 19.63	
MOTA	499		ILE A	75	10.327	12.283	23.471	1.00 17.30	
MOTA	500		ILE A	75	8.582	14.604	22.508	1.00 23.08	
MOTA MOTA	501	N	ILE A	76	11.698	12.625	26.857	1.00 18.46	
ATOM	502	CA	ILE A	76	12.916	12.070	27.436	1.00 19.33	
ATOM	503	c c	ILE A	76	12.622	11.116	28.592	1.00 19.01	
ATOM	504	ŏ	ILE A	76	13.199	10.040	28.714	1.00 20.65	
ATOM	505	CB	ILE A	76	13,816	13.253	27.900	1.00 18.88	
ATOM	506	CG1	ILE A	76	14.239	14.216	26.789	1.00 17.98	
ATOM	507	CG2	ILE A	76	15.057	12.732	28.600	1.00 20.53	
ATOM	508	CD1	ILE A	76	14.950	15.500	27.300	1.00 15.54	
MOTA	509	N	ASP A		11.643	11.474	29.412	1.00 19.90	
MOTA	510	CA	ASP A	77	11.226	10.682	30.562	1.00 19.93	
ATOM	511	С	ASP A	77	10.627	9.341	30.177	1.00 21.32 1.00 21.41	
MOTA	512	0_	ASP A	77	10.832	8.318	30.830 31.263	1.00 21.00	
MOTA	513	CB	ASP A	77	10.189	11.524 10.808	32.390	1.00 23.32	
MOTA	514	CG	ASP A	77	9.506 10.211	10.249	33.204	1.00 26.02	
MOTA	515		ASP A	77 77	8.283	10.750	32.419	1.00 24.74	
MOTA	516		LYS A	78	9.835	9.312	29.101	1.00 23.41	
MOTA MOTA	517 518	N CA	LYS A	78	9.385	8.038	28.606	1.00 23.09	
ATOM	519	Č	LYS A	78	10.529	7.247	27.975	1.00 24.61	
ATOM	520	ŏ	LYS A	78	10.518	6.000	28.021	1.00 26:85	
MOTA	521	CB	LYS A	78	8.267	8.237	27.656	1.00 25.84	
ATOM	522	CG	LYS A	78	7.024	8.643	28.403	1.00 29.26	
MOTA	523	CD	LYS A	78	5.882	8.766	27.362	1.00 40.97	
ATOM	524	CE	LYS A	78	6.119	9.815	26.221	1.00 43.91	
MOTA	525	NZ	LYS A	78	5.056	9.792	25.229	1.00 48.24	
ATOM	526	N	LEU A	79	11.559	7.936	27.437	1.00 22.19 1.00 18.09	
MOTA	527	CA	LEU A	79	12.718	7.253	26.865 27.968	1.00 16.82	
ATOM	528	Ç	LEU A	79	13.577	6.757 5.692	27.806	1.00 17.74	
ATOM	529	0	LEU A	79	14.146	8.147	25.986	1.00 16.97	
MOTA	530	CB	LEU A	79	13.580 12.928	8.748	24.768	1.00 15.98	
MOTA	531	CG	LEU A	79	13.984	9.540	24.058	1.00 16.93	
MOTA	532		LEU A	79 79	12.264	7.721	23.857	1.00 14.76	
ATOM	533		LEU A VAL A	80	13.609	7.460	29.101	1.00 16.48	
ATOM	534	N	VAL A	80	14.352		30.249	1.00 13.79	
ATOM	535 536	CA C	VAL A	80	13.697	5.725	30.731	1.00 14.44	
ATOM	537	ŏ	VAL A	80	14.385	4.763	31.022	1.00 14.81	
MOTA MOTA	538	CB	VAL A		14.382	8.054	31.331	1.00 17.12	
ATOM	539	CG1	VAL A		14.937	7.490	32.631	1.00 17.65	
MOTA	540	CG2	VAL A	80	15.307	9.189	30.910	1.00 13.43	٠.
ATOM	541	N	ASN A		12.383	5.633	30.743	1.00 16.27	•
ATOM	542	CA	ASN A		11.696	4.398	31.081	1.00 18.71	
MOTA	543	C	ASN A		11.852	3.174	30.176	1.00 21.49	
ATOM	544	Õ	ASN A	81	11.945	2.060	30.691	1.00 22.57	

ATOM	545	CB	asn	A	81	10.244	4.707	31.191	1.00 20.64	Č
MOTA	546	CG	asn		81	9.968	5.574	32.402	1.00 22.06	Ç
MOTA	547	OD1	asn	A	81	10.652	5.475	33.422	1.00 22.22	0
ATOM	548	ND2	ASN	A	81	8.941	6.409	32.322	1.00 21.76	N
ATOM	549	N	ILE	A	82	11.898	3.339	28.846	1.00 21.86	N
ATOM	550	CA	ILE		82	12.226	2.270	27.917	1.00 23.02	С
ATOM	551	C	ILE		82	13.602	1.742	28.112	1.00 23.67	С
MOTA	552	ŏ	ILE		82	13.728	0.536	28.067	1.00 26.85	0
	553	СВ	ILE		82	12.089	2.768	26.497	1.00 22.79	. С
MOTA	554		ILE		82	10.613	2.757	26.220	1.00 23.80	C
MOTA			ILE		82	12.854	1.951	25.474	1.00 21.98	. c
MOTA	555		ILE		82	10.321	3.659	25.020	1.00 27.18	č
MOTA	556	_			83	14.619	2.586	28.254	1.00 25.82	n
ATOM	557	N	VAL			15.996	2.104	28.338	1.00 27.82	č
MOTA	558	CA	VAL		83		1.471	29.706	1.00 30.01	č
MOTA	559	C	VAL		83	16.212		29.796	1.00 32.08	ŏ
MOTA	560	0	VAL		83	16.995	0.522	28.252	1.00 32.08	č
MOTA	561	СВ	VAL		83	17.139	3.137			č
ATOM	562		VAL		83	18.343	2.445	27.683	1.00 28.68	c
ATOM	563	CG2	VAL		83	16.883	4.437	27.569	1.00 28.99	
ATOM	564	N	ASP	A	84	15.602	1.983	30.789	1.00 30.99	N
ATOM	565	CA	ASP	A	84	15.711	1.384	32.123	1.00 34.08	c
ATOM	566	С	ASP	A	84	15.125	-0.013	32.275	1.00 34.30	C
ATOM	567	0	ASP	A	84	15.666	-0.816	33.035	1.00 35.01	0
ATOM	568	CB	ASP	A	84	15.148	2.331	33.189	1.00 37.32	c c
ATOM	569	CG	ASP	Α.	84	15.909	3.664	33.316	1.00 42.03	С
ATOM	570		ASP		84	16.907	3.865	32.621	1.00 43.39	0
ATOM	571		ASP		84	15.496	4.523	34.107	1.00 44.86	0
ATOM	572	N	ASP		85	14.055	-0.335	31.524	1.00 35.79	N
ATOM	573	CA	ASP		85	13.554	-1.707	31.332	1.00 37.15	С
ATOM	574	c	ASP		85	14.655	-2.665	30.860	1.00 34.71	С
	575	ŏ	ASP		85	14.777	-3.800	31.308	1.00 33.69	0
ATOM		СВ	ASP		85	12.434	-1.780	30.233	1.00 42.27	С
ATOM	576		ASP		85	11.023	-1.216	30.474	1.00 46.16	C
ATOM	577	CG	ASP		85	10.747	-0.756	31.587	1.00 46.14	0
ATOM	578					10.197	-1.234	29.539	1.00 50.79	Ö
ATOM	579		ASP		85	15.437	-2.164	29.904	1.00 33.83	N
MOTA	580	N	LEU		86	16.527	-2.886	29.288	1.00 33.71	Ċ
ATOM	581	CA	LEU		86		-2.959	30.177	1.00 34.12	č
MOTA	582	C	LEU		86	17.747	-3.965	30.083	1.00 34.86	ŏ
MOTA	583	0	LEU		86	18.440		27.948	1.00 31.87	č
ATOM	584	CB	LEU		86	16.907	-2.260		1.00 30.75	č
ATOM	585	CG	LEU		86	15.878	-2.198	26.829		č
MOTA	586		LEU		86	16.383	-1.351	25.699	1.00 30.54	c
ATOM	587	CD2	LEU		86	15.521	-3.581	26.349	1.00 29.51	N N
ATOM	588	N	VAL	A	87	18.033	-1.973	31.039	1.00 33.89	
ATOM	589	CA	VAL	A	87	19.121	-2.074	32.009	1.00 35.56	C
ATOM	590	C	VAL	A	87	18.933	-3.223	33.039	1.00 40.73	c
ATOM	591	0	VAL	A	87	19.889	-3.890	33.493	1.00 42.23	, 0
ATOM	592	CB	VAL	A	87	19.239	-0.695	32.614	1.00 31.60	C
ATOM	593	CG1	VAL	A	87	20.272	-0.634	33.703	1.00 33.57	C
ATOM	594	CG2			87	19.680	0.253	31.537	1.00 29.91	C
ATOM	595	N	GLU		88	17.645	-3.484	33.340	1.00 44.00	. <b>N</b>
ATOM	596	CA	GLU		88	17.191	-4.563	34.217		, С
MOTA	597	c	GLU		88	17.016	-5.918	33.542	1.00 48.21	C
	598	ŏ	GLU		88	17.359	-6.909	34.169	1.00 47.84	0
ATOM		СВ	GLU		88	15.868	-4.200	34.886	1.00 49.05	С
MOTA	599		GLU		88	15.877	-2.'952	35.772	1.00 52.09	C
MOTA	600	CG			88	16.809	-3.020	36.976	1.00 53.70	C
MOTA	601	CD	GLU			16.608	-3.858	37.861	1.00 55.01	ō
MOTA	602		.GLU		88	17.744	-2.221	37.020	1.00 54.23	ō
MOTA	603		GLU		88		-6.018	32.311	1.00 50.79	Ň
MOTA	604	N	CYS	A	89	16.475	-0.010	32.311	2.00 30.73	••

ATOM	605	CA	CYS	A	89	16.489	-7.244	31.503	1.00 54.51	С
MOTA	606	С	CYS	A	89	17.952	-7.703	31.459	1.00 55.09	C
MOTA	607	0	CYS	A	89	18.231	-8.791	31.961	1.00 57.42	. 0
ATOM	608	CB	CYS	A	89	15,903	-6.972	30.078	1.00 57.17	С
MOTA	609	SG	CYS	A	89	15.060	-8.280	29.096	1.00 64.80	S
ATOM	610	N	VAL	A	90	18.890	-6.838	31.002	1.00 55.69	N
ATOM	611	CA	VAL		90	20.357	-7.027	31.060	1.00 55.91	С
ATOM	612	C	VAL	A	90	20.906	-7.397	32.450	1.00 57.84	С
ATOM	613	0	VAL	Α	90	22.014	-7.924	32.546	1.00 58.27	. 0
ATOM	614	CB	VAL	Α	90	21.074	-5.738	30.480	1.00 53.45	. С
ATOM	615		VAL		90	22.542	-5.564	30.824	1.00 52.76	C
MOTA	616	CG2	VAL	A	90	20.965	-5.689	28.978	1.00 50.05	C
ATOM	617	N	LYS	A	91	20.212	-7.128	33.558	1.00 59.29	N
MOTA	618	CA	LYS		91	20.556	-7.785	34.810	1.00 62.11	C
ATOM	619	C	LYS		91	19.865	-9.163	34.996	1.00 63.85	С
ATOM	620	0	LYS		91	20.517	-10.061	35.533	1.00 66.48	0
ATOM	621	CB	LYS	A	91	20.305	-6.837	35.993	1.00 61.39	. C
ATOM	622	N	SER	A	104	36.757	4.074	31.300	1.00 64.71	. <b>N</b>
ATOM	623	CA	SER	A	104	36.147	4.043	29.974	1.00 64.00	С
ATOM	624	C	ŞER	A	104	34.723	3.416	29.904	1.00 61.57	C.
ATOM	625	Õ	SER			34.321	2.749	30.871	1.00 62.78	0
ATOM	626	СВ	SER	A	104	37.147	3.441	28.919	1.00 65.90	. с
ATOM	627	OG	SER			38.150	4.399	28.533	1.00 67.30	0
ATOM	628	N	PRO			33.891	3.576	28.842	1.00 57.26	N
ATOM	629	CA	PRO	A	105	34.173	4.332	27.635	1.00 53.19	С
ATOM	630	С	PRO			34.452	5.801	27.827	1.00 51.76	C
ATOM	631	0	PRO	A	105	34.107	6.397	28.848	1.00 53.30	0
ATOM	632	CB	PRO	A	105	32.968	4.091	26.813	1.00 51.85	. C
ATOM	633	CG	PRO			31.869	3.765	27.755	1.00 53.45	С
ATOM	634	CD	PRO	A	105	32.618	2.880	28.698	1.00 55.74	С
ATOM	635	N	GLU	A	106	35.242	6.296	26.875	1.00 50.80	N
ATOM	636	.CA	GLU	A	106	35.584	7.700	26.790	1.00 47.97	С
ATOM	637	С	GLU	A	106	34.332	8.435	26.350	1.00 44.14	C
ATOM	638	0	GLU	A	106	33.684	8.006	25.400	1.00 42.91	0
ATOM	639	CB	GLU	A	106	36.796	7.970	25.858	1.00 51.71	Č
MOTA	640	CG	GLU	A	106	36.873	7.196	24.509	1.00 57.13	Ċ
ATOM	641	CD	·GLU	A	106	38.045	6.192	24.389	1.00 60.78	C
MOTA	642	OE1	GLU	A	106	38.141	5.251	25.189	1.00 61.59	0
MOTA	643	OE2	GLU	A	106	38.874	6.338	23.482	1.00 63.52	0
ATOM	644	N	PRO	A	107	33.936	9.481	27.092	1.00 41.02	N
MOTA	645	CA	PRO	A	107	32.846	10.386	26.770	1.00 38.74	c
MOTA	646	C	PRO	A	107	33.069	11.190	25.517	1.00 37.93	c
MOTA	647	0	PRO	A	107	34.148	11.749	25.271	1.00 40.00	0
MOTA	648	CB			107	32.764	11.292	27.970	1.00 39.85	c
MOTA	649	CG			107	34.162	11.290	28.542	1.00 40.91	Ç
MOTA	650	CD			107	34.522	9.832	28.384	1.00 41.30	Ç
ATOM	651	N	ARG	A	108	32,000	11.208	24.724	1.00 35.40	. N
MOTA	652	ÇA			108	32.006	11.864	23.436	1.00 33.34	C
ATOM	653	Ç			108	30.766	12.722	23.318	1.00 29.75	C
MOTA	654	0	ARG	A	108	29.727	12.347	23.867	1.00 29.55	. 0
MOTA	655	CB			108	32.102		22.297	1.00 35.14	C
MOTA	656	CG	ARG			33.480	10.219	22.313	1.00 39.55	
MOTA	657	CD	ARG			33.734	9.386	21.057	1.00 44.05	C
ATOM	658	NE			108	34.715		21.284	1.00 45.36	N
MOTA	659	CZ			108	34.965		20.373	1.00 45.18	C
MOTA	660		ARG			34.481		19.142	1.00 46.89	N
MOTA	661		ARG			35.679		20.712	1.00 46.89	N
ATOM	662	N.			109	30.932		22.650 22.334	1.00 26.42	, C
ATOM	663	CA			109	29.833				c
MOTA	664	C	LEU	A	109	29.126	14.453	21.020	1.00 25.96	·

ATOM	665	0	LEU	A	109	29.774	14.229	20.002	1.00	26.43	0
MOTA	666	CB	LEU			30.316	16.182	22.280	1.00	24.30	C
ATOM .	667	CG	LEU			31.003	16.770	23.483		25.72	Ċ
ATOM	668		LEU			31.426	18.185	23.137		26.28	Č
ATOM	669		LEU			30.097	16.820	24.677		25.67	Č
MOTA	670	N	PHE			27.794	14.427	20.988		24.52	Ñ
	671	CA	PHE			27.019	14.004	19.822		22.36	ë
MOTA	672	C	PHE			25.996	15.079	19.586		21.47	č
MOTA			PHE			25.618	15.777	20.525		21.05	. 0
MOTA	673	0					12.725	20.025		21.69	Č
ATOM	674	CB	PHE			26.227 27.133	11.561	20.318		23.01	ç
ATOM		CG	PHE					19.238			c
MOTA	676		PHE			27.676	10.892			24.43	č
MOTA	677		PHE			27.506	11.243	21.597		21.68	C
MOTA	678		PHE			28.614	9.897	19.463		24.92	C
MOTA	679	CE2	PHE	-		28.460	10.282	21.798		22.08	C
MOTA	680	CZ	PHE			29.017	9.597	20.746		23.51	. <u>C</u>
MOTA	681	N	THR			25.557	15.239	18.339		20.40	N
MOTA	682	CA	THR			24.422	16.102	18.047		19.58	c
MOTA	683	C	THR			23.175	15.367	18.473		15.81	c
ATOM	684 ·	0	THR			23.239		18.603		18.63	0
ATOM	685	CB	THR			24.305	16.421	16.578		19.96	Č
MOTA	686	OG1	THR	A	111	24.145	15.178	15.907		21.91	0
MOTA	687	CG2	THR	A	111	25.487	17.252	16.118		23.08	C
ATOM	688	N	PRO	A	112	22.030	15.982	18.688		15.89	N
ATOM	689	CA	PRO	A	112	20.783	15.254	18.984		16.41	C
ATOM	690	С	PRO	A	112	20.500	14.089	18.025	1.00	17.10	C
ATOM	691	0	PRO	A	112	20.329	12.954	18.431	1.00	18.32	0
ATOM	692	CB	PRO	A	112	19.794	16.375	18.870	1.00	13.89	C
ATOM	693·	CG	PRO	A.	112	20.581	17.559	19.386	1.00	14.36	C
ATOM	694	CD	PRO	A	112	21.876	17.424	18.685	1.00	12.46	. С
MOTA	695	N	GLU	A	113.	20.564	14.321	16.728	1.00	20.22	N
MOTA	696	CA	GLU			20.393	13.303	15.737	1.00	24.11	C
MOTA	697	С	GLU	A	113	21.371	12.143	15.864	1.00	24.55	C
MOTA	698	0	GLU			20.963	10.982	15.866	1.00	25.38	0
ATOM	699	CB	GLU			20.539	13.991	14.420	1.00	29.66	c
MOTA	700	CG	GLU			20.432	13.029	13.250	1.00	41.26	C
MOTA	701	CD	GLU			21.253	13.476	12.042	1.00	49.84	C
ATOM	702		GLU			22.475	13.694	12.197	1.00	52.84	0
ATOM	703		GLU			20.662	13.586	10.949	1.00	55.78	. 0
ATOM	704	N	GLU			22.663	12.384	16.033	1.00	24.48	N
ATOM	705	CA	GLU			23.594	11.291	16.198	1.00	22.26	C
ATOM	706	C	GLU			23.398	10.486	17.471	1.00	22.80	C
ATOM	707	ō	GLU			23.564	9.256	17.494	1.00	23.87	0
ATOM	708	СВ	GLU			24.979	11.857	16.198		26.15	Ċ
MOTA	709	CG	GLU			25.362	12.534	14.897		32.62	C
ATOM	710	CD	GLU			26.719	13.225	15.002		38.61	· c
ATOM	711	OE1	GLU			26.860	14.093	15.867		41.67	Õ
	712	OE2	GLU			27.646	12.893	14.242	•	42.28	Õ
MOTA	713	N	PHE				11.181	18.558		21.59	N
MOTA	714	CA	PHE			22.812	10.544	19.850		19.30	Ċ
MOTA	715	C	PHE				9.645	19.667		17.06	č
ATOM		-	PHE			21.555	8.527	20.165		17.46	ŏ
MOTA	716	0	PHE			22.586	11.623	20.972		16.68	Č
MOTA	717	CB					11.018	22.298		13.67	Č
ATOM	718	CG	PHE			22.148	10.679	22.520		15.42	Ċ
ATOM	719		PHE			20.820		23.261		15.56	Ċ
MOTA	720		PHE			23.081	10.752	23.251		16.48	
MOTA	721	-	PHE			20.412	10.003			17.36	
MOTA	722	CE2	PHE			22.674	10.136	24.429		18.29	
MOTA	723	CZ	PHE			21.351	9.750	24.617			. C
MOTA	724	N	PHE	A	116	20.581	10.135	18.981	1.00	18.67	P.

MOTA	725	CA	PHE A	116	19.401	9.327	18.860	1.00 18.51	С
ATOM	726	С	PHE A		19.510	8.196	17.854	1.00 22.03	C
MOTA	727	ō	PHE A		18.768	7.213	17.892	1.00 22.83	0
	728	CB	PHE A		18.204	10.195	18.687	1.00 19.13	С
ATOM		CG	PHE A		17.735	10.764	20.021	1.00 19.41	Ċ
ATOM	729				17.159	9.924	20.952	1.00 19.08	č
MOTA	730		PHE A			-	20.343	1.00 19.60	c
MOTA	731		PHE A		17.991	12.079			~
MOTA	732		PHE A		16.911	10.381	22.214	1.00 18.67	C
ATOM	733		PHE A		17.747	12.528	21.619	1.00 21.95	C
ATOM	734	CZ	PHE A	116	17.218	11.674	22.550	1.00 19.99	C
ATOM	735	N	ARG A	. 117	20.510	8.249	16.986	1.00 22.43	N
ATOM	736	CA	ARG A	. 117	20.822	7.134	16.123	1.00 21.98	C
ATOM	737	С	ARG A	117	21.453	6.076	16.971	1.00 19.70	c
ATOM	738	0	ARG A	117	21.039	4.946	16.841	1.00 22.56	0
ATOM	739	CB	ARG A	117	21.769	7.623	15.052	1.00 27.63	C
ATOM	740	CG	ARG A		22.329	6.596	14.082	1.00 36.33	С
ATOM	741	CD	ARG A		23.135	7.255	12.971	1.00 43.02	С
MOTA	742	NE	ARG A		22.296	8.207	12.239	1.00 49.61	N
	743	CZ	ARG A		22.704	9.468	12.008	1.00 54.02	С
MOTA			ARG A		23.915	9.867	12.474	1.00 53.58	N
ATOM	744				21.899	10.314	11.313	1.00 53.56	N
MOTA	745		ARG A		22.394	6.348	17.874	1.00 19.56	N
MOTA	746	N	ILE A			5.328	18.746	1.00 18.66	Ĉ
MOTA	747	CA	ILE A		22.944	4.776	19.673	1.00 19.62	· č
MOTA	748	C	ILE A		21.888	3.579	19.933	1.00 21.23	ŏ
MOTA	749	0	ILE A		21.887				· č
MOTA	750	CB	ILE A		24.054	5.970	19.533	1.00 21.60	č
MOTA	751		ILE A		25.121	6.479	18.593	1.00 22.63	C
MOTA	752		ILE A		24.665	5.002	20.534	1.00 22.20	C
MOTA	753	CD1	ILE A	118	26.178	7.330	19.285	1.00 23.90	C
ATOM	754	N	PHE A	119	20.971	5.619	20.180	1.00 20.06	N
ATOM	755	CA	PHE A	119	19.827	5.124	20.943	1.00 21.07	c
ATOM	756	С	PHE A	119	18.940	4.182	20.141	1.00 21.06	C
MOTA	757	0	PHE A	119	18.720	3.075	20.600	1.00 22.31	0
ATOM	758	СВ	PHE A		19.001	6.253	21.590	1.00 18.55	C
ATOM	759	CG	PHE A		17.726	5.856	22.342	1.00 18.55	C
ATOM	760		PHE A		16.517	5.708	21.673	1.00 17.37	С
MOTA	761		PHE A		17.736	5.715	23.718	1.00 21.09	C
	762		PHE A		15.348	5.439	22.351	1.00 16.37	С
MOTA	763	CE2	PHE A		16.555	5.448	24.404	1.00 19.97	. C
MOTA			PHE A		15.369	5.311	23.721	1.00 19.81	Ç
MOTA	764	CZ			18.426	4.507	18.957	1.00 22.51	N
MOTA	765	N	ASN A		17.567	3.577	18.222	1.00 23.92	Ċ
MOTA	766.	CA	ASN A		18.284	2.316	17.841	1.00 25.82	Č
MOTA	767	C	ASN A			1.274	17.841	1.00 26.73	ō
MOTA	768	0_	ASN A		17.653	4.179	16.996	1.00 20.96	č
MOTA	769	CB	asn A		16.912	5.195		1.00 24.90	č
MOTA	770	CG	ASN A		15.857		17.377	1.00 30.44	ŏ
MOTA	771		asn A		14.852	4.877	18.020	1.00 26.09	N
MOTA	772	ND2	ASN A		16.044	6.458	17.023	<del>-</del>	
ATOM	773	N	ARG A	121	19.605	2.390	17.632	1.00 29.29	. N
ATOM	774	CA	ARG A	121 -	20.447	1.234	17.314	1.00 32.15	c
ATOM	775	C	ARG A	121	20.686		18.503	1.00 32.13	C
ATOM	776	Õ	ARG A	121	20.652	-0.949	18.369	1.00 32.27	0
ATOM	777	СВ	ARG A		21.752	1.846	16.891	1.00 36.26	C
ATOM	778	CG	ARG A		22.606	0.988	16.001	1.00 42.80	C
ATOM	779	CD	ARG A		24.066	1.304	16.288	1.00 45.46	C
MOTA	780	NE	ARG A		24.730	0.026	16.469	1.00 49.59	N
	781	CZ	ARG A		25.603	-0.473	15.599	1.00 47.62	C
MOTA		NILIT	ARG A		26.106	0.291	14.622	1.00 50.56	N
ATOM	782	MUT	ARG I	1 121	25.907	-1.764	15.692	1.00 41.39	N
ATOM	783				20.925	0.856	19.695	1.00 29.65	N
MOTA	784	N	SER A	1 166	64.363	4.050			••

	•										
ATOM	785	CA	SER	A	122	20.981	0.077	20.908	1.00 27.73	•	С
ATOM	786	C	SER	A	122	19.643	-0.555	21.201	1.00 27.23		Ċ
ATOM	787	Ö	SER	A	122 .	19.603	-1.652	21.716	1.00 28.27		Ō
ATOM	788	CB	SER			21.388	0.942	22.071	1.00 25.31		Č
ATOM	789	OG	SER			22.619	1.543	21.726	1.00 25.19		ŏ
MOTA	790	N	ILE			18.530	0.087	20.884	1.00 29.27		N
ATOM	791	CA	ILE			17.210	-0.453	21.140	1.00 31.25		c
	792	c	ILE			16.972	-1.618	20.207	1.00 32.43		č
ATOM			ILE			16.522	-2.672	20.637	1.00 32.75		Ö
ATOM	793	O CP				16.129	0.661	20.973	1.00 33.20		Š
ATOM	794	CB			123	16.123	1.685	22.130	1.00 35.20		C
MOTA	795 ·				123 ·			20.629			c
ATOM	796		ILE			14.739	0.181		1.00 33.87	•	Č
MOTA	797		ILE			16.243	1.313	23.627	1.00 32.91		C
MOTA	798	N .	ASP			17.325	-1.466	18.937	1.00 35.41		N
MOTA	799	CA	ASP			17.064	-2.502	17.973	1.00 38.41		Ç
MOTA	800	C	ASP		124	17.902	-3.728	18.170	1.00 38.55		C
MOTA	801	0	ASP			17.386	-4.820	17.960	1.00 39.71		0
ATOM	802	CB	ASP			17.074	-1.951	16.562	1.00 43.19		C
MOTA	803	CG	ASP			15.763	-1.179	16.387	1.00 51.27		C
ATOM	804	-	ASP			14.700	-1.790	16.620			0
ATOM	805	OD2	ASP			15.784	0.020	16.039	1.00 54.65		0
ATOM	806	N	ALA	A	125	19.102	-3.546	18.739	1.00 37.63		N
MOTA	807	CA	ALA	Α	125	20.039	-4.621	18.983	1.00 37.10		C
MOTA	808	С	ALA	A	125	19.555	-5.682	19.944	1.00 39.02	•	C
MOTA	809	0	ALA	Α	125	20.250	-6.667	20.151	1.00 40.94		0
ATOM	810	CB	ALA	A	125	21.321	-4.035	19.500	1.00 35.16		C
ATOM	811	N	PHE	A	126	18.374	-5.538	20.549	1.00 41.54		N
ATOM	812	CA	PHE	A	126	17.774	-6.599	21.363	1.00 45.13		C
ATOM.	813	С	PHE	A	126	16.837	-7.482	20.578	1.00 47.39		C
ATOM	814	0	PHE			16.711	-8.660	20.900	1.00 48.19		0
MOTA	<b>B15</b>	СВ	PHE			16.971	-6.099	22.571	1.00 45.19	•	C
ATOM	816	CG	PHE			17.791	-5.456	23.683	1.00 44.53		С
ATOM	817		PHE			18.239	-4.150	23.568	1.00 43.63		C
MOTA	818		PHE			18.073	-6.184	24.815	1.00 44.69		C
ATOM	819		PHE			18.960	-3.565	24.576	1.00 41.80		C
ATOM	820		PHE			18.800	-5.597	25.822	1.00 43.70		C
ATOM	821	CZ			126	19.238	-4.295	25.700	1.00 43.96		C
ATOM	822	N			127 ·	16.128	-6.898	19.600	1.00 50.61		N
MOTA	823	CA	LYS			15.283	-7.656	18.679	1.00 53.56		C
ATOM	824	Ċ.	LYS			16.149	-8.640	17.856	1.00 55.43		C
ATOM	825	ŏ	LYS			16.038	-9.876	17.922	1.00 57.14		Õ
ATOM	826	ČВ	LYS			14.546	-6.638	17.764	1.00 51.56		C
MOTA	827	N	ASP			17.077	-8.036	17.105	1.00 57.96		N
	828	CA	ASP			18.105	-8.734	16.356	1.00 59.25		C
ATOM	829	Č	ASP			19.292	-9.249	17.190	1.00 59.16		Č
MOTA MOTA	830	õ	ASP			20.461	-8.894	17.008	1.00 58.89	•	ō
-	831	CB	ASP			18.492	-7.915	15.062	1.00 61.00		č
MOTA			ASP			18.868	-6.421	15.036	1.00 61.70		č
MOTA	832	CG	ASP			20.024	-6.078	15.330	1.00 63.63		ŏ
MOTA	833					18.015	-5.603	14.667	1.00 61.66		ō
ATOM	834		ASP					18.118	1.00 59.49		.N
MOTA	835	N	PHE			18.967	-10.719	19.002	1.00 61.20	•	C
MOTA	836	CA	PHE	A	123	17.707	-12.103	18.503	1.00 61.55		c
ATOM	837	C	PHE	A	129	20.411	-10.103				Ö
MOTA	838	0_	PHE				-12.979	18.179	1.00 61.67		
ATOM	839	CB	PHE				-10.801	20.440	1.00 64.40		C
MOTA	840	CG	PHE				-10.282	21.561	1.00 67.62		C
ATOM	841		PHE				-10.721	21.686	1.00 68.55		Ċ
MOTA	842	CD2	PHB	A	129	19.847	-9.338	22.473	1.00 69.51		C
MOTA	843		PHE				-10.192	22.672	1.00 68.84		C
MOTA	844	CE2	PHE	A	129	20.665	-8.823	23.472	1.00 68.79		C

ATOM	845	CZ	PHE	A	129	21	.976	-9.245	23.561	1.00	69.80		C
ATOM	846	N	VAL	A	130	21	.737	-12.294	18.417	1.00	60.68		N
ATOM	847	CA	VAL	-	,			-13.577	18.041	1.00	60.72		C
ATOM	848	Č.	VAL					-13.949	19.040		59.57		č
			VAL					-13.076	19.597		58.08		ŏ
ATOM	849	0						-13.560	16.582		60.98	•	Š
MOTA	850	CB	VAL										C
ATOM	851		VAL					-15.001	16.068		60.93		Ç
MOTA	852	CG2	VAL					-12.635	15.579		58.32		C
MOTA	853	N	VAL					-15.277	19.213		57.03		N
MOTA	854	CA	VAL	A	131			-15.872	20.101		54.98		С
MOTA	855	С	VAL	A	131 '			-15.336	19.950	1.00	53.17		C
MOTA	856	0	VAL	A	131	26	. 547	-15.173	18.839	1.00	51.72		0
ATOM	857	CB	VAL	A	131	24	.563	-17.411	19.950	1.00	55.34	•	C
ATOM	858	CG1	VAL	A	131	25	.611	-18.162	20.780	1.00	55.30		C
ATOM	859		VAL			23	.145	-17.893	20.297	1.00	54.41		C
ATOM	860 .	N	ALA					-15.027	21.117	1.00	52.91		N
ATOM	861	CA	ALA					-14.512	21.293	1.00	52.69	•	C
ATOM	862	c	ALA					-15.433	20.860		53.47		Č
	863	ŏ	ALA					-15.019	20.445		52.96		ŏ
MOTA		СВ	ALA					-14.176	22.771		48.84		Č
MOTA	864							-16.725	21.000		55.81		N
ATOM	865	N	SER						20.533		58.09		C
MOTA	866	CA	SER					-17.748					Č
MOTA	867	C	SER					-17.881	19.005		59.46		Š
MOTA	868	0_	SER					-18.259	18.343		61.98		0
MOTA	869	CB	SER			29	.348	-19.047	21.161		59.31		C
MOTA	870	N	GLU					-17.536	18.469		58.84		N
MOTA	871	CA	GLU					-17.530	17.031		57.10		C
MOTA	872	C	GLU	A	134			-16.218	16.298		54.08		C
ATOM	873	0	GLU	A	134	28	.319	-16.114	15.094		50.66		0
ATOM	874	CB	GLU	A	134			-17.808	16.761		58.33		C
ATOM	875	CG	GLU	A	134	26	. 269	-19.189	17.121	1.00	61.93		C
ATOM	876	CD	GLU	A	134	24	. 955	-19.558	16.436	1.00	65.28		С
MOTA	877		GLU	A	134	24	.056	-18.711	16.294	1.00	64.83		0
ATOM	878	OE2	GLU			24	.853	-20.726	16.034	1.00	68.18	•	0
ATOM	879	N	THR			28	.999	-15.169	16.988	1.00	52.70		N
ATOM	880	CA	THR					-13.953	16.291	1.00	51.61		C
MOTA	881	Ċ	THR					-13.856	16.192		51.35		C
MOTA	882	ō	THR					-14.721	15.580		52.93		0
ATOM	883	СВ	THR					-12.683	16.830		49.31		C
		OG1	THR					-12.514			49.65		ō
ATOM	884		THR					-12.772	16.767		48.16		Č
ATOM	885							-12.828	16.825		50.88		N
ATOM	886	N	SER					-12.502	16.714		49.48	•	c
ATOM	887	CA	SER					-12.163	18.121		47.44		c
ATOM	888	C	SER						19.056		46.14		ō
ATOM	889	0_	SER					-12.000					Č
ATOM	890	CB	SER					-11.306	15.767		50.00	•	
MOTA	891	OG	SER			32	.146	-11.504	14.615		52.41		0
ATOM	892	N	ASP					-12.051			44.90		N
ATOM	893	CA	ASP					-11.578	19.566		40.01		c
ATOM	894	С	ASP	A	137			-10.093	19.850		36.45	*	C
MOTA	895	0	ASP			34	.105	-9.570	19.228		35.34		0
ATOM	896	CB	ASP			36	.879	-11.949	19.641		40.10		C
ATOM	897	CG	ASP			37	.915	-11.197	18.783		44.69		C
MOTA	898		ASP					-10.121	18.252		46.41	•	0
MOTA	899		ASP					-11.661	18.648	1.00	46.87		0
MOTA	900	N	CYS				.702	-9.337	20.741	1.00	32.95		N
MOTA	901	CA	CYS				.263	-7.982	21.014		31.28	•	C
MOTA	902	C	CYS				.311		20.838		30.73		Č
	903	Ö	CYS				.233		21.414		31.32		ō
ATOM		СВ	CYS				.557		22.361		32.08	•	č
ATOM	904	LD.	CID	~	-30	24							•

ATOM	905	SG	CYS A	138	32.988	-8.777	22.463	1.00			S
MOTA	906	N	VAL A		37.258	-7.242	19.954	1.00			N
ATOM	907	CA	VAL A		38.333	-6.318	19.599	1.00			C
MOTA	908	Ç	VAL A		38.151	-5.898	18.168 17.342	1.00	20.81 27.95	•	Ö
ATOM	909	0	VAL A		37.830 39.769	-6.734 -6.915	19.600		28.99		č
MOTA	910	CB	VAL A		40.717	-5.884	20.195		29.64		č
ATOM	911 912		VAL A		39.889	-8.307	20.143		26.32		č
MOTA MOTA	913	N N	VAL A		38.424	-4.646	17.840		31.00	. •	N
MOTA	914	CA	VAL A		38.442	-4.247	16.459	1.00	34.50	•	С
MOTA	915	_	VAL A		39.899	-4.167	16.020		36.64		С
ATOM	916	0	VAL A	140	40.406	-5.059	15.323		39.48		0
MOTA	917	CB	VAL A		37.758	-2.914	16.217		36.55		C
MOTA	918		VAL A		37.417	-2.900	14.747		36.42		C
ATOM	919		VAL A		36.594	-2.569	17.119		34.81 37.83		N
MOTA	920	N	SER A		40.566	-3.136 -2.682	16.529 16.123		41.81		C
ATOM	921	CA	SER A		41.905 41.936	-1.563	15.056		42.37		č
ATOM	922	C	SER A		43.035	-1.174	14.685		43.60		ŏ
ATOM	923 924	CB O	SER A		42.986	-3.811			42.08	•	Č
MOTA	925	OG	SER A		43.175	-4.693	17.008		38.01		0
ATOM TER	927	OG	SER A			• • • • • • • • • • • • • • • • • • • •					
MOTA	928	N	ASN B	11	2.666	37.382	21.946		65.93		N
MOTA	929	CA	ASN B	11	1.945	36.256	22.556		66.50		C
ATOM	930	С	ASN B	11	2.726	35.510	23.658		66.17		c
MOTA	931	0	asn b	11	3.559	34.641	23.372		66.24		o C
ATOM	932	CB	asn b	11	1.488	35.204	21.515		66.50 65.43		N
ATOM	933	N	VAL B	12	2.404	35.814	24.934 26.131		62.92		Ċ
MOTA	934	CA	VAL B	12	3.197 3.195	35.450 33.985	26.631		60.27		č
MOTA	935	Ç	VAL B	12 12	4.143	33.547	27.294		59.00		ŏ
MOTA	936 937	O CB	VAL B	12	2.780	36,430	27.299		64.35		C
MOTA MOTA	938		VAL B	12	1.408	36.086	27.935	1.00	63.94		С
MOTA	939		VAL B	12	3.908	36.621	28.318		63.41		C
ATOM	940	N	LYS B	13	2.125	33.208	26.374		56.82		N
ATOM	941	CA	LYS B	13	2.071	31.821	26.800		51.85		C
ATOM	942	C	LYS B	13	3.021	31.001	25.927		48.88		C
MOTA	943	0	LYS B	13	3.595	30.003	26.380 26.675		49.33	•	č
MOTA	944	CB	LYS B	13	0.640 3.258	31.283 31.456	24.684		44.12		Ŋ
MOTA	945	N .	ASP B	14 14	4.169	30.783	23.770		37.71	•	Ċ
MOTA	946 947	CA.	ASP B	14	5.662	30.978	24.040		31.42		C
MOTA MOTA	948	ŏ	ASP B	14	6.413	30.026	23.895	1.00	30.29		0
MOTA	949	СВ	ASP B	14	3.763	31.113	22.326		40.87		C
ATOM	950	CG	ASP B	14	2.497	30.409	21.803		44.08		C
ATOM	951		ASP B	14	1.832	29.636	22.531	_	44.87		0
ATOM	952	OD2	ASP B	14	2.192	30.662	20.631		45.27		o N
MOTA	953	N	VAL B	15	6.165	32.130	24.468		25.72		C
ATOM	954	CA	VAL B	15	7.545	32.234	24.906 26.112		24.93 26.84		Č
MOTA	955	C.	VAL B	15	7.872	31.357	26.124		29.81		ŏ
MOTA	956	0	VAL B	15 15	8.935 7.914	30.739	25.178		22.45		С
MOTA	957 958	CB	VAL B	15	9.335	33.803	25.722		18.01		С
MOTA	958 959		VAL B	15	7.730	34.435	23.895		21.89		С
MOTA MOTA	960	N N	THR B	16	6.962	31.275	27.104	. 1.00	27.60		N
ATOM	961	CA	THR B	16	7.040	30.393	28.276		28.70		C .
ATOM	962	c	THR B	16	7.191	28.905	27.903		27.24		C
MOTA	963	ō	THR B	16	8.063	28.227	28.442		29.07		0
ATOM	964	CB	THR B	16	5.797	30.649	29.237		30.92		C
MOTA	965	OG1	THR B	16	5.967	31.920	29.887	1.00	30.85		J

MOTA	966	CG2	THR !			5.605	29.577	30.304		29.47
MOTA	967	N	LYS !	B 1	7	6.385	28.387	26.979		24.02
ATOM	968	CA	LYS !			6.508	27.042	26.455		25.48
MOTA	969	С	·LYS 1	B 1	7	7.776	26.845	25.607	1.00	22.72
ATOM	970	0	LYS !	B 1	7	8.397	25.806	25.690	1.00	22.89
ATOM	971	CB	LYS !	B 1	7	5.235	26.851	25.662	1.00	29.47
ATOM	972	CG	LYS 1	B 1	7	5.047	25.479	25.076	1.00	36.80
ATOM	973	CD	LYS !	B 1	7	3.820	25.460	24.129	1.00	40.47
ATOM	974	CE	LYS !	B 1	7	3.432	24.008	23.742	1.00	42.23
ATOM	975	NZ	LYS			4.518	23.260	23.099	1.00	40.28
MOTA	976	N	LEU			8.223	27.840	24.836	1.00	21.80
ATOM	977	CA	LEU			9.489	27.797	24.148	1.00	19.84
ATOM	978	Ċ	LEU !			10.608	27.757	25.151	1.00	19.53
ATOM	979	ŏ.	LEU			11.425	26.868	24.985	1.00	22.71
ATOM	980	CB	LEU			9.660	28.989	23.206	1.00	17.63
ATOM	981	CG	LEU			10.954	29.148	22.479	1.00	13.25
ATOM	982	CD1	LEU			11.216	27.956	21.627		16.15
ATOM	983	CD2	LEU			10.895	30.338	21.606		13.19
ATOM	984	N	VAL		9	10.670	28.606	26.187		17.49
ATOM	985	CA	VAL		9	11.713	28.547	27.193		15.59
	986	C	VAL		9	11.708	27.199	27.912		16.76
ATOM	987	ŏ	VAL		9	12.763	26.598	28.121		18.54
MOTA	988	СВ	VAL		9	11.587		28,170		15.79
MOTA	989	CG1	VAL		9	12.566	29.662	29.308		13.19
MOTA	-	CG2	VAL		9	11.922	31.014	27.489		12.62
MOTA	990		ALA		Ó	10.533	26.655	28.232		17.26
MOTA	991	N CA	ALA		Ö	10.415	25.384	28.918		17.20
MOTA	992	CA	ALA		0	10.866	24.235	28.075		20.20
MOTA	993	ò	ALA		Ö	11.185	23.166	28.578		22.02
MOTA	994	CB	ALA		Ö	8.972	25.064	29.185		18.25
ATOM	995	N	ASN		1	10.854	24.390	26.763		22.32
ATOM	996		ASN		1	11.373	23.351	25.920		21.93
ATOM	997	CA	asn		1	12.711	23.661	25.314		21.34
MOTA	998	C	ASN		1	13.114	22.930	24.441		23.28
MOTA	999	0	asn		1	10.378	23.022	24.873		26.17
ATOM	1000	CB CG	ASN		1	9.256	22.250	25.531		31.77
ATOM	1001		ASN		1	9.352	21.054	25.813		30.41
ATOM	1002	OD1	ASN		1	8.168	22.955	25.820		34.22
MOTA	1003	ND2	LEU		2	13.455	24.675	25.727		20.84
MOTA	1004	N	LEU		2	14.825	24.880	25.285		18.95
ATOM	1005	CA	LEU		2	15.754	24.358	26.359		19.14
ATOM	1006	C	LEU		2	15.428	24.560	27.526		19.71
ATOM	1007	0	LEU		2	15.097	26.380	25.022		17.41
ATOM	1008	CB	LEU		2	14.510	27.035	23.750		15.79
MOTA	1009	CG	LEU		2	14.718	28.544	23.724		13.61
ATOM	1010	CD1		-	2	15.120	26.381	22.517		14.80
MOTA	1011	CD2	LEU		3	16.903	23.701	26.091		18.35
ATOM	1012	И	PRO			17.831	23.260	27.130		17.51
MOTA	1013	CA	PRO		3	18.329	24.418	28.008		17.87
MOTA	1014	, C	PRO		3	18.703	25.449	27.473		18.03
ATOM	1015	0	PRO		:3	18.908	22.619	26.307		13.87
ATOM	1016	CB	PRO		:3	18.299	22.223	25.002		12.84
ATOM	1017	CG	PRO		:3		23.421	24.762		14.01
ATOM	1018	CD	PRO		3	17.457		29.347		18.87
MOTA	1019	N	LYS		4	18.327	24.340 25.441	30.226		21.96
ATOM	1020	CA	LYS		4	18.756		30.226		21.00
ATOM	1021	C	LYS		4	20.207	25.930	30.334		21.61
MOTA	1022	0_	LYS	-	4	20.567	27.081	31.703		23.68
MOTA	1023	CB	LYS		4	18.456	25.044			29.69
MOTA	1024	CG	LYS		24	16.956	25.097	32.077		34.88
MOTA	1025	CD	LYS	B 2	4	16.544	24.407	33.429	1.00	34.00

ATOM	1026	CE	LYS	В	24	15.010	24.526	33.777	1.00 39.45		С
ATOM	1027	NZ	LYS	В	24	14.493	23.773	34.927	1.00 41.87		N
ATOM	1028	N	ASP		25	21.040	25.044	29.503	1.00 19.08		N
	1029	CA	ASP		25	22.440	25.350	29.263	1.00 20.79		Ċ
MOTA			ASP		25	22.758	25.601	27.789	1.00 19.77		č
ATOM	1030	, C						27.373	1.00 20.06		
MOTA	1031	0	ASP	_	25	23.907	25.469				0
MOTA	1032	CB	ASP		25 ·	23.305	24.190	29.796	1.00 17.87		C
MOTA	1033	CG	ASP		25	23.063	22.836	29.175	1.00 20.81		C
ATOM	1034	ODl	ASP	В	25	21.975	22.598	28.651	1.00 22.64	-	0
ATOM	1035	OD2	ASP	В	25	23.964	21.991	29.214	1.00 24.79		0
ATOM	1036	N	TYR	В	26	21.753	25.866	26.950	1.00 19.06		N
MOTA	1037	CA	TYR		26	21.990	26.130	25.542	1.00 18.77		C
	1038	Č.	TYR		26	22.027	27.652	25.358	1.00 18.82		С
MOTA		ŏ	TYR		26 -	21.066	28.358	25.655	1.00 19.57		Ō
MOTA	1039		TYR		26	20.900	25.477	24.712	1.00 16.23		Č
	1040	CB						23.228	1.00 19.16		Č
MOTA	1041	CG	TYR		26	21.007	25.766				č
MOTA	1042		TYR		26	22.034	25.216	22.492	1.00 20.33		_
MOTA	1043		TYR		26	20.097	26.629	22.632	1.00 19.21		C
MOTA	1044	CE1	TYR	В	26	22.125	25.531	21.150	1.00 19.71		Ċ
MOTA	1045	· CE2	TYR	В	26	20.180	26.936	21.294			C
ATOM	1046	CZ	TYR	В	26	21.184	26.356	20.565	1.00 21.21		C
ATOM	1047	OH	TYR		26	21.209	26.560	19.204	1.00 23.57		0
HETATM		N	MSE		27	23.136	28.207	24.891	1.00 18.02		N
HETATM		CA	MSE		27	23.249	29.645	24.886	1.00 20.01		C
		Č	MSE		27	22.894	30.253	23.553	1.00 20.43		C
HETATM					27	23.319	29.791	22.493	1.00 22.74		ŏ
HETATM		0	MSE			24.648	30.070	25.309	1.00 21.80		. č
HETATM		СВ	MSE		27			26.646	1.00 24.25		Č
HETATM		CG	MSE		27	25.179	29.494				
HETATM		SE	MSE		27	24.219	29.995	28.260	1.00 30.76		SE
HETATM	1055	CE	MSE		27	24.936	31.691	28.317	1.00 17.91		Č
ATOM	1056	N	ILE	В	28	22.071	31.294	23.642	1.00 21.17		N
MOTA	1057	CA	ILE	В	28	21.690	32.092	22.507	1.00 20.03		Ç
ATOM	1058	С	ILE	В	28	22.501	33.383	22.470	1.00 20.64		C
ATOM	1059	0	ILE	В	28	22.545	34.162	23.403	1.00 19.83		0
ATOM	1060	СВ	ILE		28	20.168	32.289	22.522	1.00 19.56		C
	1061		ILE		28	19.489	30.935	22.719	1.00 14.81		С
MOTA			ILE		28	19,653	32.893	21.195	1.00 17.30		С
ATOM	1062		ILE		28	17.993	31.054	22.978	1.00 14.38		C
MOTA	1063	_				23.235	33.585	21.364	1.00 22.56	••	N
MOTA	1064	N	THR		29		34.777	21.117	1.00 21.92		Ċ
MOTA	1065	CA	THR		29	24.048			1.00 21.18		č
MOTA	1066	Ç	THR		29	23.167	35.926	20.723			ŏ
MOTA	1067	0	THR		29	22.235	35.744	19.926	1.00 24.05		Š
MOTA	1068	CB	THR	B	29	25.003	34.540	19.949	1.00 24.32		Č
ATOM	1069	OG1	THR	B	29	25.751	33.393	20.310	1.00 26.19		0
MOTA	1070	CG2	THR	B	29	25.901	35.743	19.657	1.00 23.45		C
ATOM	1071	N	LEU	В	30	23.485	37.110	21.229	1.00 19.18		N
MOTA	1072	CA	LEU		30	22.694	38.278	20.928	1.00 19.42		C
	1073	Č.	LEU		30	23.612	39.444	21.123	1.00 20.84		C
MOTA		ŏ	LEU		30	24.251	39.604	22.155	1.00 22.59		0
MOTA	1074		LEU		30	21.486	38.458	21.822	1.00 16.57		C
MOTA	1075	CB				20.712		21.692	1.00 17.65		č
MOTA	1076	CG	LEU	_	30		.39.739 39.690	20.405	1.00 15.54	•	č
MOTA	1077		LEU		30	19.907		22.946	1.00 14.12		c
MOTA	1078		LEU		30	19.875	40.004				
ATOM	1079	N	LYS		31	23.641	40.271	20.085	1.00 21.41		N
ATOM	1080	CA	LYS	В	31	24.340	41.533	20.142	1.00 22.33		C
ATOM	1081	С	LYS		31	23.462	42.478	20.918	1.00 21.90		C
ATOM	1082	ŏ	LYS		31	22.714	43.295	20.370	1.00 24.57		0
MOTA	1083	СВ	LYS		31	24.642	42.093	18.754	1.00 21.18	•	C
ATOM	1084	CG	LYS		31	25.844	41.479	18.111	1.00 21.89		C
ATOM	1085		LYS		31	25.551	41.360	16.647	1.00 29.30		·C
A10//	1003			_							

ATOM	1086	CE	LYS			26.741	40.957	15.808	1.00 31.29	
	1087	NZ	LYS			27.628	42.105	15.688	1.00 39.41	
ATOM	1088	N	TYR			23.572	.42.299	22.227	1.00 21.32	
ATOM	1089	CA	TYR			22.800	43.101	23.138	1.00 19.60	
MOTA	1090	C	TYR		•	23.198	44.586	22.981	1.00 19.96	
ATOM	1091	0	TYR			24.384	44.940	22.977	1.00 20.37	
MOTA	1092	CB	TYR			23.094	42.513	24.532	1.00 17.35 1.00 17.26	
MOTA	1093	CG	TYR			22.621	43.373	25.710	1.00 17.20	•
ATOM	1094		TYR			21.298	43.297 44.280	26.107 26.299	1.00 14.00	
MOTA	1095		TYR :			23.490	44.149	27.086	1.00 13.12	
ATOM	1096		TYR :			20.851 23.013	45.166	27.227	1.00 14.39	
MOTA	1097	CE2	TYR			23.013	45.070	27.606	1.00 13.82	
MOTA	1098	CZ	TYR I			21.702	45.916	28.560	1.00 18.31	
ATOM	1099	OH	VAL			22.179	45.455	22.873	1.00 19.13	
MOTA	1100	n Ca	VAL			22.376	46.889	22.818	1.00 19.34	
MOTA	1101	c	VAL			22.478	47.489	24.223	1.00 22.86	
MOTA	1102	ò	VAL			21.487	47.535	24.979	1.00 23.26	
MOTA	1103	СВ	VAL			21.220	47.609	22.071	1.00 18.33	
MOTA	1104 1105	CG1	VAL			21.607	49.014	21.732	1.00 17.72	
MOTA	1105	CG2	VAL			20.868	46.933	20.772	1.00 18.88	
MOTA MOTA	1107	N	PRO			23.669	48.022	24.556	1.00 23.14	
MOTA	1108	CA	PRO				48.685	25.814	1.00 25.98	
ATOM	1109	Ċ.	PRO			22.991	49.844	26.052	1.00 27.87	
MOTA	1110	ō	PRO			22.782	50.697	25.173	1.00 28.20	
ATOM	1111	ĊВ	PRO			25.355	49.247	25.629	1.00 24.52	
ATOM	1112	CG	PRO			25.947	48.454	24.514	1.00 23.81	
ATOM	1113	CD	PRO		4	24.761	48.256	23.617	1.00 23.96	
ATOM	1114	N	GLY	В 3	5	22.428	49.854	27.265	1.00 27.60	
ATOM	1115	CA	GLY	B 3	5	21.544	50.919	27.694	1.00 26.85	
ATOM	1116	С	GLY :	B 3	5	20.103	50.509	27.809	1.00 26.95	
ATOM	1117	0	GLY	B 3	5	19.314	51.234	28.392	1.00 27.06	
HETATM	1118	N	MSE		6	19.736	49.361	27.277	1.00 27.66	
HETATM	1119	CA	MSE		6	18.444	48.762	27.502	1.00 31.16	
HETATM		С	MSE		6	17.873	48.948	28.920	1.00 33.96	
HETATM		0_	MSE		6	16.708	49.315	29.138 27.225	1.00 34.27	
HETATM		CB	MSE		6	18.679	47.299 46.622	26.126	1.00 37.69	
HETATM	1123	CG	MSE		6	17.921 16.954	45.030	26.682	1.00 48.87	
HETATM			MSE		6 .	16.692	45.161	28.580	1.00 40.22	
HETATM		CE	MSE		6 7	18.753	48.712	29.902	1.00 35.95	
ATOM	1126	N	ASP ASP		7	18.421	48.828	31.303	1.00 37.28	
ATOM	1127	CA	ASP		7	18.228	50.272	31.758	1.00 38.57	
MOTA	1128 1129	C	ASP		7	17.189	50.545	32.368	1.00 42.23	
MOTA	1130	CB	ASP		7	19.407	48.058	32.203	1.00 38.21	
ATOM ATOM	1131	CG	ASP		7	20.907	48.280	32.005	1.00 42.18	
MOTA	1132		ASP		7	21.288	49.092	31.150	1.00 44.69	
ATOM	1133		ASP		7	21.709	47.641	32.708	1.00 43.60	
ATOM	1134	N	VAL		8	19.111	51.237	31.458	1.00 36.46	
MOTA	1135	CA	VAL	-	8	18.974	52.585	32.008	1.00 34.42	
ATOM	1136	Ċ	VAL		8		53.701		1.00 35.48	
ATOM	1137	ŏ	VAL		8	17.844	54.706	31.662	1.00 35.46	
ATOM	1138	СВ	VAL		8	20.314	53.047	32.623	1.00 33.96	
MOTA	1139	CG1	VAL	B 3	8	20.656	52.110	33.757	1.00 33.39	
ATOM	1140	CG2	VAL	B 3	8	21.452	53.127	31.638	1.00 30.40	
ATOM	1141	N	LEU		9	18.466	53.536	29.826	1.00 34.58	٠.
ATOM	1142	CA	LEU	B 3	9	18.173	54.590		1.00 33.84	
ATOM	1143	C	LEU		9	16.770	54.521	28.304	1.00 34.39	
ATOM	1144	0 -	LEU		19	16.234	53.407		1.00 37.21	
ATOM	1145	CB	LEU	B 3	. 9	19.106	54.513	27.672	1.00 31.59	

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MOTA	1146	CG	LEU		39	20.516	54.934	27.836	1.00 30.49		C
MOTA	1147		LEU		39 .	21.233	54.571	26.544	1.00 30.11		C
ATOM	1148	_	LEU		39	20.556	56.416	28.187	1.00 28.81		
ATOM	1149	N	PRO		40	16.124	55.613	27.821 27.336	1.00 32.18		N C
MOTA	1150	CA	PRO		40	14.743	55.564 54.656	26.104	1.00 32.18		ç
ATOM	1151	C	PRO		40	14.595 15.515	54.575	25.295	1.00 32.07		õ
MOTA	1152	0	PRO		40 40	14.498	57.028	27.054	1.00 32.07		č
MOTA	1153	CB	PRO PRO		40.	15.395	57.749	28.027	1.00 32.72		č
MOTA	1154	CC	PRO		40	16.655	56.977	27.813	1.00 33.34		č
MOTA	1155 1156	CD N	SER		41	13.487	53.949	25.885	1.00 31.04		N
MOTA MOTA	1157	CA	SER		41	13.422		24.819	1.00 32.48		Ċ
ATOM	1158	č	SER		41	13.785	53.436	23.428	1.00 32.31		Ċ
ATOM	1159	ŏ	SER		41	14.301	52.651	22.638	1.00 30.86		0
ATOM	1160	СВ	SER		41	12.119	52.197	24.820	1.00 34.06		С
ATOM	1161	OG	SER		41	10.984	53.037	24.872	1.00 39.11		0
MOTA	1162	N	HIS		42	13.622	54.747	23.191	1.00 34.63		N
MOTA	1163	CA	HIS		42	13.911	55.363	21.888	1.00 36.02		C
MOTA	1164	C	HIS		42	15.396	55.300	21.511	1.00 36.52		C
MOTA	1165	ō	HIS		42	15.780	55.228	20.327	1.00 34,40		0
MOTA	1166	CB	HIS		42	13.316	56.805	21.755	1.00 34.27		C
ATOM	1167	CG	HIS		42	13.946	57.935	22.576	1.00 34.59		С
ATOM	1168	ND1	HIS	В	42	13.588	58.408	23.772	1.00 36.14		N
MOTA	1169	CD2	HIS	В	42	15.013	58.687	22.154	1.00 32.00		Ç
ATOM	1170	CE1	HIS		42	14.381	59.396	24.117	1.00 32.43		C
MOTA	1171	NE2	HIS	В	42	15.227	59.539	23.124	1.00 35.02		N
MOTA	1172	N ·	CYS		43	16.177	55.249	22.615	1.00 35.96		N
MOTA	1173	CA	CYS		43	17.627	55.122	22.565	1.00 35.90		C
MOTA	1174	C	CYS		43	18.176	53.799	22.054	1.00 32.86		C
MOTA	1175	0_	CYS		43	19.347	53.782	21.649	1.00 33.40		0
ATOM.	1176	CB	CYS		43	18.339	55.448	23.910	1.00 40.38 1.00 45.68		C
MOTA	1177	SG	CYS		43	18.099	57.127 52.707	24.542 22.075	1.00 45.68		N
MOTA	1178	N	TRP		44	17.380 17.913	51.374	21.831	1.00 25.51		Ċ
MOTA	1179	CA	TRP		44	17.009	50.463	21.066	1.00 24.22		č
MOTA	1180	č	TRP		44	17.544	49.594	20.406	1.00 26.02		ō
MOTA	1181	O CB	TRP		44	18.375	50.661	23.113	1.00 21.99		C
MOTA	1182 1183	CG	TRP		44	17.351	50.644	24.234	1.00 20.34		C
MOTA MOTA	1184		TRP		44	17.361	51.632	25.183	1.00 18.11	•	C
ATOM	1185	CD3	TRP		44	16.297	49.745	24.363	1.00 19.23		C
ATOM	1186	NEI			44	16.293	51.390	25.908	1.00 19.12		N
ATOM	1187	CE2	TRP		44	15.635	50.281	25.471	1.00 18.20		C
ATOM	1188		TRP		44	15.892	48.551	23.795	1.00 15.22		C
ATOM	1189	CZ2	TRP		44	14.532	49.622	26.000	1.00 14.99	•	C
ATOM	1190		TRP	В	44	14.805	47.897	24.324	1.00 13.45		C
MOTA	1191	CH2	TRP	В	44	14.130	48.434	25.405	1.00 15.50	•	C
ATOM	1192	N	ILE	B	45	15.680	50.626	21.096	1.00 24.85		N
ATOM	1193	CA	ILE	B	45	14.726	49.656	20.539	1.00 25.50		Č
MOTA	1194	С	ILE		45	14.926	49.254	19.094	1.00 26.34		C
MOTA	1195	Ο.	ILE		45	14.724	48.086	18.762	1.00 28.11	*	. C
MOTA	1196	CB	ILE	В	45	13.231	50.055		1.00 26.28 1.00 24.31		
MOTA	1197		ILE		45	12.358	48.838	20.592	1.00 24.31		C
MOTA	1198		ILB		45	12.716	51.206	19.885	1.00 25.51		C
MOTA	1199		ILE		45	12.688	47.633	21.486 18.274	1.00 19.41		N
MOTA	1200	N	SER		46	15.336	50.233	16.851	1.00 28.67		C
MOTA	1201	CA	SER		46	15.623	50.071 49.059	16.553	1.00 27.51		Č
ATON	1202	C	SER		46	16.739 16.558	48.113	15.773	1.00 26.90		ŏ
MOTA	1203	0	SER		46	15.933	51.472	16:250	1.00 28.71		č
ATOM	1204	CB	SER		46	16.259	51.414	14.871	1.00 31.35		ŏ
MOTA	1205	OG	SER	B	46	10.233	37.474	74.0.7	2.77 02.33		_

MOTA	1206	N	GLU	В	47	17.902	49.210	17.203	1.00			N
MOTA	1207	CA	GLU	В	47	18.910	48.173	17.142	1.00	27.22		С
MOTA	1208	·C	GLU	В	47	18.555	46.912	17.906	1.00			C
ATOM	1209	0	GLU	В	47	19.011	45.850	17.513		24.85		0
MOTA	1210	CB	GLU		47	20.209	48.703	17.683		30.36		C
ATOM	1211	CG	GLU		47	21.460	47.909	17.269		31.64		C
MOTA	1212	CD	GLU		47	21.718	47.840	15.774		31.93		C
ATOM	1213	OE1	GLU		47	21.267	48.726	15.034		32.82		0
ATOM	1214	OE2	GLU		47	22.391	46.892	15.366		31.60		0
HETATM	1215	N	MSE		48	17.739	46.958	18.958		23.65.		N
HETATM	1216	CA	MSE		48	17.401	45.755	19.709		21.94	•	C
HETATM	1217	С	MSE		48	16.511	44.916	18.837		22.24		C
HETATM	1218	0_	MSE		48	16.819	43.732	18.731		24.91		O O
HETATM		CB	MSE		48	16.783		21.080		22.86		Ċ
HETATM	1220	CG	MSE		48	16.875	44.981	22.173 22.615		24.51 30.61		SE
HETATM	1221		MSE		48	18.597	44.203	21.922		26.74	•	C
HETATM		CE	MSE		48	17.982	42.661 45.445	18.110		21.88		N
MOTA	1223	N	VAL		49	15.506	44.597	17.276		20.25		Ĉ
MOTA	1224	CA	VAL		49	14.661	43.973	16.098		20.18		č
MOTA	1225	C	VAL		49	15.387 15.120	42.815	15.780		22.62		ō
ATOM	1226	O.	VAL		49 49	13.351	45.252	16.813		23.22		č
ATOM	1227	CB	VAL VAL		49	12.455		17.992		24.62		Ċ
ATOM	1228		VAL		49	13.551	46.527	16.025		23.30		С
MOTA	1229	CG2 N	VAL		50	16.363	44.655	15.484		19.52		N
MOTA	1230 1231	CA	VAL		50	17.179	44.087	14.408		19.02		C
MOTA	1231	C	VAL		50	18.005	42.916	14.897		19.73		С
ATOM	1233	õ	VAL		50	18.091	41.872	14.232	1.00	19.76		0
ATOM ATOM	1234	СВ	VAL		50	18.110	45.171	13.808	1.00	18.29		C
ATOM	1235		VAL		50	19.181	44.607	12.925	1.00	16.52	;	C
MOTA	1236		VAL		50	17.290	46.136	13.024	1.00	18.74		C
MOTA	1237	N	GLN		51	18.617	43.151	16.064	1.00	17.95		N
MOTA	1238	CA	GLN		51	19.447	42.130	16.677	1.00	18.39		C
ATOM	1239	Ċ	GLN		51	18.645	40.938	17.084		16.66		С
MOTA	1240	O	GLN	В	51	19.056	39.827	16.830		18.39		0
ATOM	1241	CB	GLN	В	51	20.264	42.655	17.851		18.87		C
ATOM	1242	CG	GLN	В	51	21.265	43.713	17.440		18.55		Č
ATOM	1243	CD	GLN	В	51	22.253	43.283	16.370		23.83		C
MOTA	1244	OE1	GLN	В	51	22.400	42.141	15.918		23.92		0
ATOM	1245	NE2	GLN	В	51	23.019	44.265	15.958		27.04		N
MOTA	1246	N	LEU		52	17.481	41.149	17.652		16.16		N C
ATOM	1247	CA	LEU		52	16.615	40.053	18.010		17.66		C
MOTA	1248	C	LEU		52	16.106	39.302	16.810		18.23		ŏ
MOTA	1249	0	LEU		52	16.012	38.080	16.844		18.09 19.12		č
MOTA	1250	CB	LEU		52	15.412	40.576	18.771		20.87		c
ATOM	1251	CG	LEU		52	15.665	40.840	20.232		20.47		c
ATOM	1252		LEU		52	14.609	41.767	20.734 21.037		21.69		č
MOTA	1253		LEU		52	15.692	39.553.	15.717		20.42		N
MOTA	1254	N	SER		53	15.797	40.014	14.469		18.47		Č
MOTA	1255	CA	SER		53		38.428					č
MOTA	1256	C	SER		53	16.491	37.257	13.692		17.53		ŏ
MOTA	1257	0_	SER		53	16.259	40.496	13.523		.21.19		č
MOTA	1258	CB	SER		53	15.188	39.866	12.317		22.45		ō
MOTA	1259	OG	SER		53	14.858	38.892	13.962		21.01		Ŋ
MOTA	1260	N	ASP		54	18.811	38.060	13.483		25.15		
MOTA	1261	CA	ASP		54	19.040	36.841	14.339		24.43	٠.	č
ATOM	1262	Ç	ASP		54 54	19.279	35.764	13.782		24.72		000
ATOM	1263	0	ASP		54 54	20.170	38.731	13.462		32.20		Č
ATOM	1264	CB ~~	ASP		54 54	20.366	40.017	12.671		44.10		č
ATOM	1265	CG	ASP	ø	54 ·	20.300						_

ATOM	1266	OD1	ASP	В	54	19.508	40.411	11.838	1.00 48.06	0
ATOM	1267		ASP		54	21.429	40.630	12.924	1.00 50.40	0
ATOM	1268	N	SER		55	19.025	37.009	15.674	1.00 21.94	N
ATOM	1269	CA	SER	В	55	19.197	35.872	16.589	1.00 21.29	С
MOTA	1270	C	SER	В	55	18.036	34.884	16.516	1.00 19.86	C
ATOM	1271	0	SER	В	55	18.259	33.675	16.567	1.00 20.94	0
ATOM	1272	CB	SER	В	55	19.356	36.295	18.052	1.00 18.68	C
MOTA	1273	<b>QG</b>	SER	В	55	20.384	37.208	18.406	1.00 18.26	0
ATOM	1274	N	LEU		56	16.789	35.362	16.374	1.00 20.32	N
ATOM	1275	CA	LEU		56	15.647	34.453	16.343	1.00 20.44	c
MOTA	1276	· C	LEU		56	15.628	33.735	15.025	1.00 21.16	C
MOTA	1277	0	LEU		56	15.299	32.552	14.968	1.00 20.64 1.00 19.08	0
MOTA	1278	CB	LEU		56	14.335	35.169	16.568	1.00 19.76	Č
MOTA	1279	CG	LEU		56	13.967	35.545	17.993 18.033	1.00 18.12	č
MOTA	1280		LEU		56	12.809	36.497 34.308	18.773	1.00 15.12	·č
MOTA	1281		LEU		56	13.621	34.451	13.984	1.00 22.55	N
MOTA	1282	N	THR		57	16.081 16.144	33.901	12.624	1.00 23.77	· ĉ
MOTA	1283	CA	THR		57 57	17.169	32.775	12.599	1.00 25.31	č
MOTA	1284	C	THR		57	16.904	31.674	12.109	1.00 28.36	Ö
MOTA	1285	O	THR		57	16.420	35.019	11.581	1.00 22.83	C
MOTA	1286 1287	CB	THR		57	15.245	35.800	11.520	1.00 20.28	. 0
MOTA	1288		THR		57	16.608	34.496	10.209	1.00 22.98	С
MOTA MOTA	1289	N	ASP		58	18.331	32.975	13.229	1.00 27.29	N
MOTA	1290	CA	ASP		58	19.328	31.934	13.394	1.00 25.16	. С
ATOM	1291	Ċ	ASP		58	18.874	30.781	14.238	1.00 22.74	С
ATOM	1292	ō	ASP		58	19.128	29.640	13.909	1.00 20.50	0
ATOM	1293	CB	ASP		58	20.510	32.549	14.059	1.00 32.90	C
ATOM	1294	CG	ASP	B.	58	21.367	33.343	13.098	1.00 40.22	C
ATOM	1295	OD1	ASP	B	58	21.635	32.807	11.999	1.00 47.28	. 0
ATOM	1296	OD2	ASP	В	58	21.780	34.468	13.458	1.00 42.79	0
MOTA	1297	N	LEU		59	18.174	31.090	15.328	1.00 22.88 1.00 22.01	N C
ATOM	1298	CA	LEU		59	17.597	30.066	16.166	1.00 22.75	č
MOTA	1299	Ç	LEU		59	16.596	29.206	15.391 15.498	1.00 24.25	ŏ
MOTA	1300	0_	LEU		59	16.642	27.981 30.711	17.389	1.00 21.26	č
MOTA	1301	CB	LEU		59	16.984 16.544	29.703	18.408	1.00 21.05	Č
MOTA	1302	CG	LEU		59	17.733	28.955	19.020	1.00 20.13	Č
MOTA	1303		LEU		59 59 .	15.718	30.419	19.413	1.00 20.68	Ċ
MOTA	1304	N N	LEO		60	15.729	29.754	14.537	1.00 22.30	N
MOTA	1305 1306	CA	LEU		60	14.838	28.912	13.776	1.00 21.18	C
ATOM ATOM	1307	c	LEU		60	15.559	27.884	12.897	1.00 24.69	C
MOTA	1308	ŏ	LEU		60	15.084	26.761	12.702	1.00 27.59	0
ATOM	1309	ČВ	LEU		60	13.949	29.829	12.982	1.00 20.34	C
ATOM	1310	CG	LEU		60	12.805	29.256	12.208	1.00 15.11	Q
ATOM	1311		LEU	В	60	11.775	28.689	13.124	1.00 14.00	Ç
MOTA	1312	CD2	LEU	B	60	12.216	30.351	11.405	1.00 15.62	C
ATOM	1313	N	ASP	В	61	16.768	28.142	12.405	1.00 28.19	N
MOTA	1314	CA	ASP	В	61	17.425	27.134	11.587	1.00 31.01	9
ATOM	1315	С	ASP		61	17.898	25.925	12.380	1.00 30.42	
MOTA	1316	0	ASP		61	18.293	24.903		1.00 30.78 1.00 40.38	č
MOTA	1317	CB	ASP		61	18.486	27.766	10.638		6
MOTA	1318	CG	ASP		61	20.011	27.910	11.630	1.00 52.10	č
MOTA	1319		ASP		61	20.632	27.086 28.852	10.340	1.00 54.11	č
MOTA	1320	OD2			61	20.602	26.023	13.706	1.00 29.72	ì
MOTA	1321	N	LYS		62	17.841 18.282	24.972	14.586	1.00 26.53	i
MOTA	1322	CA	LYS		62 63	17.227	23.920	14.754	1.00 26.40	Č
MOTA	1323	C	LYS		62 62	17.553	22.835	15.224	1.00 28.09	Č
ATOM	1324	O	LYS LYS		62	18.655	25.534	15.953	1.00 25.89	
MOTA	1325	CB	כנט	9	04					

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ATOM	1326	CG	LYS		62	19.865	26.451	15.996	1.00			C
Mota	1327	CD	LYS		62	21.053	25.810	15.308	1.00			C
ATOM	1328	CE	LYS		62	22.198	26.806	15.251	1.00			C
ATOM	1329	NZ	LYS	В	62	21.868	27.957	14.431	1.00	34.52		N
MOTA	1330	N	PHE	В	63	15.986	24.225	14.389		26.48		N
ATOM	1331	CA	PHE	B	63	14.862	23.316	14.568	1.00	29.27		C
ATOM	1332	С	PHE	В	63	14.293	22.916	13.220	1.00	31.78		C
ATOM	1333	0	PHE	В	63	14.573	23.581	12.227	1.00	34.39		0
ATOM	1334	CB	PHE	В	63	13.744	23.920	15.427	1.00	24.13		C
ATOM	1335		PHE	В	63	14.261	24.236	16.809	1.00	23.83		C
MOTA	1336		PHE		63	14.269	23.261	17.761	1.00	20.94		C
ATOM	1337		PHE		63	14.811	25.488	17.066	1.00	25.00		C
MOTA	1338	CE1	PHE	В	63	14.872	23.535	18.964	1.00	23.54		С
ATOM	1339		PHE		63	15.444	25.741	18.263	1.00	22.33		С
	1340	cz	PHE		63	15.467	24.752	19.211		21.46		C
MOTA	1341	N	SER		64	13.565		13.203		35.96		N
MOTA		CA	SER	_	64	12.847	21.251	12.047		41.24		C
MOTA	1342		SER		64	11.362	21.237	12.401		44.87	•	č
MOTA	1343	Č				11.045	21.210	13.593		45.47		ŏ
MOTA	1344	0	SER		64 64	13.299	19.810	11.723		39.81		č
MOTA	1345	CB	SER			14.690	19.659	11.441		41.15		ŏ
ATOM	1346	OG	SER		64		21.257	11.464		50.28		N
MOTA	1347	N	ASN		65	10.393		11.878		53.31		ĉ
MOTA	1348	CA	ASN		65		21.293 19.970	12.291		53.88		Č
ATOM	1349	C	ASN		65	8.304		11.815		53.27		ò
MOTA	1350	<u> </u>	ASN		65	8.619	18.877			55.21		č
MOTA	1351	CB	ASN		65	8.137	22.121	10.899		50.21		Č
MOTA	1352	CG	ASN		65	6.847	22.674	11.525		58.28	•	Š
MOTA	1353		ASN		65	5.829	22.845	10.846		62.80		N
ATOM	1354		asn		65	6.802	22.997	12.821		58.83		N
MOTA	1,355	N	ILE		66	7.402	20.111	13.274		55.78		N
MOTA	1356	CA	ILE		66	6.604	19.028	13.857		58.20		2
MOTA	1357	C	ILE		66	5.128	19.413	13.732		59.99		C
MOTA	1358	0	ILE		66	4.679	20.439	14.266		59.98		Ž
MOTA	1359	CB	ILE		66	6.916	18.864	15.373		58.00		٥
MOTA	1360	CG1	ILE	В	66	8.393	18.635	15.673		56.77		Č
MOTA	1361		ILE		66	6.119	17.713	15.950		58.43		c
MOTA	1362	CD1	ILE	В	66	8.729	18.733	17.169		53.61		C
MOTA	1363	N	SER	В	67		18.545	13.027		62.59		N
MOTA	1364	CA	SER	В	67	2.945	18.687	12.803		65.18		C
MOTA	1365	С	SER	В	67	2.049	18.114	13.935		66.39		.C
ATOM	1366	0	SER	В	67	1.110	17.339	13.725		68.18	•	ō
ATOM	1367	CB	SER	B	67	2.632	18.133	11.385		65.71		C
ATOM	1368	OG	SER	В	67	3.288	16.912	10.995		67.79		0
ATOM	1369	N	GLU	В	68	2.307	18.549	15.184		66.59		N
ATOM	1370	CA	GLU	В	68	1.793	17.929	16.415		65.52		C
MOTA	1371	С	GLU	В	68	0.895	18.865	17.238		66.78		С
MOTA	1372	O	GLU	В	68	-0.333	18.715	17.307	1.00	67.15		0
ATOM	1373	CB	GLU		68	2.977	17.471	17.301	1.00	66.40		С
ATOM	1374	CG	GLU		68	2.568	17.163	18.743	1.00	67.84		C
ATOM	1375	CD	GLU		68	3.745	16.736	19.622		69.12		C
ATOM	1376		GLU		68 ·	4.931	16.661	19.119	1.00	,,,,,		0
MOTA	1377		GLU		68	3.552	16.451	20.865	1.00	71.34		0
ATOM	1378	N	GLY		69	1.582	19.807	17.897		65.16		N
	1379	CA	GLY		69	1.015	20.935			63.26		C
MOTA	1379	Č	GLY		69	2.019	22.049	18.382		60.63		C
MOTA		ŏ.	GLY		69	2.666	22.081	17.308		60.82		0
ATOM	1381		LEU		70	2.179	22.963	19.355		57.50	••	N
ATOM	1382	N	LEU		70	3.254	23.950	19.225		53.07		C
MOTA	1383	CA	LEU		70 70	4.610	23.233	19.244		50.38		Č
MOTA	1384	C	LEU		70	4.879	22.324	20.040	_	53.95		ŏ
MOTA	1385	0	TEU	D	70	4.073	~~					_

ATOM	1386	CB	LEU	В	70	3.243	25.033	20.295	1.00 52	2.74		С
ATOM	1387	CG	LEU		70	2.243	26.184	20.332	1.00 54	.01		С
ATOM	1388	CD1	LEU	B	70	2.326	26.991	19.014	1.00 54	.05		С
MOTA	1389	CD2	LEU	B	70	0.834	25.683	20.698	1.00 55	.75		С
ATOM	1390	N	SER	В	71	5.437	23.543	18.271	1.00 43	3.22		N
ATOM	1391	CA.	SER	B	71	6.788	23.107	18.347	1.00 37	7.10		C
ATOM	1392	С	SER	В	71	7.676	24.348	18.452	1.00 35	5.41		С
ATOM	1393	0	SER	В	71	7.223	25.469	18.195	1.00 34	1.32		0
ATOM	1394	СВ	SER	В	71	7.030	22.242	17.147	1.00 36		:	С
ATOM	1395	OG	SER	В	71	6.753	22.899	15.934	1.00 36			0
ATOM	1396	N	ASN	В	72	8.946	24.206	18.876	1.00 33		•	N
ATOM	1397	CA	ASN	В	72	9.888	25.327	18.974	1.00 28			C
MOTA	1398	C	ASN	В	72	10.013	26.017	17.631	1.00 2			C
MOTA	1399	0	ASN	В	72	10.086	27.234	17.591	1.00 2			0
MOTA	1400	CB	asn	В	72	11.281	24.862	19.462	1.00 2			C
MOTA	1401	CG	ASN	В	72	11.365	24.292	20.880	1.00 2			C
ATOM	1402	-	asn		72	10.592	24.638	21.764	1.00 2			0
MOTA	1403	ND2	ASN	В	72	12.284	23.373	21.160	1.00, 20			N
MOTA	1404	N	TYR		73	9.968	25.221	16.547	1.00 2			, N
MOTA	1405	CA	TYR		73	9.940	25.723	15.179	1.00 2			Ç
MOTA	1406	C	TYR		73	8.760	26.639	14.993	1.00 2			C
MOTA	1407	0	TYR		73	8.967	27.809	14.726	1.00 2			0
MOTA	1408	CB	TYR		73	9.881	24.631	14.075	1.00 2			C
MOTA	1409	CG	TYR		73	10.162	25.129	12.647	1.00 2			C .
MOTA	1410		TYR		73	9.210	25.828 24.929	11.901 12.122	1.00 2			Č
MOTA	1411	CD2	TYR		73	11.426		10.690	1.00 2			č
MOTA	1412		TYR		.73	9.566 11.783	26.391 25.467	10.898	1.00 2			č
MOTA	1413	CE2	TYR		73 73	10.855	26.215	10.209	1.00 3			· č
MOTA	1414	CZ	TYR TYR		73	11.245	26.802	9.014	1.00 3			. ŏ
ATOM	1415	OH N	SER		74	7.535	26.185	15.145	1.00 2			N
MOTA	1416 1417	CA	SER		74	6.402	27.077	15.028	1.00 2			Ċ
ATOM ATOM	1418	Č	SER		74	6.449	28.270	15.935	1.00 2			C
ATOM	1419	ŏ	SER		74	6.039	29.360	15.572	1.00 2	5.85		0
ATOM	1420	CB	SER		74	5.156	26.342	15.357	1.00 2	5.27		C
MOTA	1421	ŌĞ	SER		74	5.173	25.254	14.460	1.00 3	2.42		0
ATOM	1422	N	ILE	B	75	6.958	28.120	17.146	1.00 2	5.08		N
MOTA	1423	CA	ILE	В	75	6.913	29.248	18.057	1.00 2			С
ATOM	1424	С	ILE	В	75	7.908	30.294	17.620	1.00 2			C
ATOM	1425	0	ILE	В	75	7.509	31.437	17.519	1.00 2			0
ATOM	1426	CB	ILE		75	7.150	28.785	19.482	1.00 2			c
MOTA	1427		ILE		75	5.984	27.956	19.962	1.00 2			C
ATOM	1428	CG2	ILE	В	75	7.272	29.985	20.397	1.00 2			c
MOTA	1429		ILE		75	6.254	27.309	21.343	1.00 2			C
MOTA	1430	N	ILE		76	9.149	29.881	17.347	1.00 2			N C
MOTA	1431	CA	ILE		76	10.226	30.789	16.994 15.705	1.00 2			č
ATOM	1432	Ç	ILE		76	9.830	31.465	15.673	1.00 2			ŏ
MOTA	1433	0_	ILE		76	9.898	32.679 30.123	16.831	1.00 2			č
MOTA	1434	CB	ILE		76 76	11.611 12.075	29.444	18.092	1.00.1			č
MOTA	1435	CG1	<u>-</u> _	_		12.661	31.169	16.489	1.00 1			č
MOTA	1436		ILE		76 76	13.143	28.388	17.846	1.00 1			č
MOTA	1437		ASP		77	9.353	30.734	14.702	1.00 2			N
MOTA	143B	N CA	ASP		77	8.866	31.293	13.456	1.00 2			Ċ
MOTA	1439	CA	ASP		77	7.856	32.411	13.657	1.00 2			č
MOTA MOTA	1440 1441	Ö	ASP		77	8.065	33.525	13.187	1.00 2			0
ATOM	1442	CB	ASP		77	8.223	30.179	12.680	1.00 2			C
ATOM	1443	CG	ASP		77	8.018	30.507	11.212	1.00 3	2.25		C
ATOM	1444	OD1	ASP		77	8.957	31.036	10.598	1.00 3			. 0
ATOM	1445	OD2	ASP	В	77	6.927	30.224	10.704	1.00 3	32.50		0
		_										

MOTA	1446	Ň	LYS	В	78	6.797	32.211	14.443	1.00 28.77	N
ATOM	1447	CA	LYS		78	5.891	33.285	14.868	1.00 28.31	Ċ
MOTA	1448	·C	LYS		78	6.596	34.463	15.571	1.00 26.90	Ċ
MOTA	1449	ŏ	LYS		78	6.221	35.629	15.449	1.00 26.22	ō
ATOM	1450	СВ	LYS		78	4.861	32.589	15.762	1.00 32.30	Č
ATOM	1451	CG	LYS		78	3.767	33.491	16.290	1.00 41.29	č
	1452	8	LYS		78	2.746	32.676	17.100	1.00 49.72	č
ATOM	1453	Œ	LYS		78	1.564	33.546	17.666	1.00 53.37	č
ATOM		NZ	LYS		78	0.551	32.773	18.406	1.00 54.23	N
ATOM	1454		LEU		79	7.663	34.218	16.330	1.00 25.35	N
MOTA	1455	n Ca	LEU		79	8.352	35.299	17.007	1.00 23.52	Ĉ
MOTA	1456				79	9.151	36.141	16.063	1.00 22.42	Ċ
MOTA	1457	C	LEU		79 79	9.249	37.348	16.219	1.00 20.72	ŏ
MOTA	1458	0	LEU		79	9.292	34.752	18.074	1.00 23.66	
ATOM	1459	CB ·	LEU			8.739	33.917	19.241	1.00 21.39	Č
MOTA	1460	CG	LEU		79		33.517	20.260	1.00 21.39	Č
ATOM	1461		LEU			9.823 7.579	34.608	19.911	1.00 21.67	0000
ATOM	1462		LEU		79					N N
ATOM	1463	N	VAL		80	9.727	35.426	15.094	1.00 25.43	N
MOTA	1464	CA	VAL		80	10.474	35.983	13.952	1.00 25.77	C
MOTA	1465	C	VAL		80	9.566	36.918	13.200	1.00 25.42	
atom	1466	0	VAL		80	9.948	38.052	12.971 12.949	1.00 26.43	o C
MOTA	1467	CB	VAL		80		34.920			Š
MOTA	1468	CG1	VAL	B	80	11.693		11.801	1.00 26.74	c
MOTA	1469		VAL		80	12.018	33.999		1.00 24.19	C N
MOTA	1470	N	ASN		81	8.352	36.466	12.893	1.00 27.82	N
MOTA	1471	CA	ASN		81	7.420	37.299	12.163	1.00 29.77	C
MOTA	1472	C	ASN		81	6.999	38.527	12.964	1.00 29.38	Č
MOTA	1473	0	ASN		81	6.937	39.593	12.377	1.00 32.14	0
MOTA	1474	CB	ASN		81	6.221	36.505	11.562	1.00 31.24	C
ATOM	1475	CG	ASN		81		35.379	10.564	1.00 33.72	. C
MOTA	1476		asn		81	7.608	35.271	9.962	1.00 34.16	0
MOTA	1477		asn		81	5.614	34.454	10.332	1.00 37.55	N
ATOM	1478	N	ILE		82	6.761	38.515	14.283	1.00 30.06	N
MOTA	1479	CA	ILE		82	6.418	39.713	15.057	1.00 27.77	C
MOTA	1480	C	ILE		82	7.591	40.672	15.019	1.00 28.50	c
MOTA	1481	0	ILE		82	7.388	41.866	14.826	1.00 30.63	0
MOTA	1482	CB	ILE		82	6.164	39.318	16.534	1.00 27.91	c
ATOM	1483		ILE		82	4.880	38.557	16.625	1.00 29.24	c
MOTA	1484		ILE		82	6.192	40.458	17.555	1.00 23.22	c
MOTA	1485	CD1	ILE		82	4.796	37.771	17.958	1.00 33.77	Č
MOTA	1486	N	VAL		83	8.833	40.218	15.222	1.00 28.54	N
ATOM	1487	CA	VAL		83	9.884	41.192	15.413	1.00 28.60	. с
ATOM	1488	C	VAL		83	10.348	41.752	14.061	1.00 32.57	C
MOTA	1489	0	VAL		83	10.849	42.878	13.989	1.00 32.81	0
MOTA	1490	CB	VAL		83	10.975	40.632	16.338	1.00 26.41	C
MOTA	1491		VAL		83	11.972	39.760	15.644	1.00 26.53	c
MOTA	1492	CG2	VAL		83	11.609	41.742	17.144	1.00 25.82	C
MOTA	1493	N	ASP		84	10.153	40.975	12.980	1.00 33.06	N
ATOM	1494	CA	ASP		84	10.383	41.446	11.632	1.00 34.79	C
MOTA	1495	С	ASP	В	84	9.332	42.450	11.205	1.00 34.82	. с
MOTA	1496	0	ASP	В	84		43.271	10.357	1.00 36.49	0
MOTA	1497	CB	ASP		84	10.391	40.329	10.601	1.00 37.40	Ç
MOTA	1498	CG	ASP		84	11.732	39.649	10.403	1.00 41.65	C
MOTA	1499	OD1	ASP	В	84	12.767	40.242	10.726	1.00 45.61	0
MOTA	1500	OD2	ASP		84	11.746	38:524	9.895	1.00 45.89	. 0
MOTA	1501	N	ASP		85	8.101	42.430	11.753	1.00 33.73	N
MOTA	1502	CA	ASP		85	7.134	43.501	11.551	1.00 32.67	С
MOTA	1503	C	ASP		85	7.527	44.753	12.304	1.00 31.61	C
ATOM	1504	0	ASP		85	7.290	45.876	11.852	1.00 30.78	o
MOTA	1505	CB	ASP	В	85	5.689	43.092	11.967	1.00 36.31	С

ATOM	1506	CG	ASP	B	85	4.984	42.012	11.146	1.00 36.50	С
ATOM	1507	OD1	ASP	B	85	5.491	41.708	10.065	1.00 34.52	
MOTA	1508	OD2	ASP.	В	85	3.945	41.485	11.574	1.00 37.36	0
MOTA	1509	N	LEU	B	86	8.151	44.567	13.473	1.00 31.94	N
MOTA	1510	CA	LEU	В	86	8.695	45.686	14.241	1.00 29.00	C
ATOM	1511	C	LEU	В	86	9.945	46.335	13.646	1.00 27.01	С
MOTA	1512	0	LEU	B	86	10.158	47.536	13.788	1.00 25.07	0
MOTA	1513	CB	LEU		86	8.888	45.242	15.703	1.00 29.72	C
MOTA	1514	CG	LEU		86	7.630	44.973	16.544	1.00 29.69	С
ATOM	1515		LEU		86	7.934	44.246	17.825	1.00 29.68	. с
MOTA	1516	CD2	LEU		86	6.938	46.265	16.914	1.00 29.39	С
MOTA	1517	N	VAL		87	10.774	45.550		1.00 26.28	N
MOTA	1518	CA	VAL		87		46.068	12.214	1.00 29.27	· c
MOTA	1519	C	VAL		87	11.333	47.009	11.163	1.00 32.65	c
MOTA	1520	0	VAL		87	11.721	48.175	11.164	1.00 35.43	0
MOTA	1521	CB	VAL		87	12.725	44.966	11.523	1.00 28.93	c
MOTA	1522		VAL		87	13.789	45.570	10.630	1.00 25.59	C
ATOM	1523		VAL		87	13.417	44.036	12.521	1.00 30.50	· C
MOTA	1524	N	GLU		88	10.392	46.534	10.325	1.00 34.28	N
MOTA	1525	CA	GLU		88	9.820	47.291	9.217		c
MOTA	1526	C	GLU		88	9.201	48.582	9.702	1.00 34.90	c
MOTA	1527	0	GLU		88	9.505	49.640	9.178	1.00 35.08	0
MOTA	1528	CB	GLU		88	8.789	46.446	8.468	1.00 34.62	ç
MOTA	1529	CG	GLU		88	9.361	45.233	7.725	1.00 35.13	, c
MOTA	1530	CD	GLU		88	8.360	44.218	7.145	1.00 37.81	C
MOTA	1531		GLU		88	7.241	44.088	7.653	1.00 39.42	0
MOTA	1532	OE2	GLU		88	8.696	43.539	6.176	1.00 38.59	0
MOTA	1533	N ·	CYS		89	8.402	48.520	10.754	1.00 37.74	N
MOTA	1534	CA	CYS		89	7.803	49.680	11.378	1.00 41.43	C
MOTA	1535	.c	CYS		89	8.798	50.685	11.934	1.00 43.62	C
MOTA	1536	0_	CYS		89	8.578	51.896	11.896	1.00 44.63	0
MOTA	1537	CB	CYS		89	6.875	49.166	12.472	1.00 43.51	C
MOTA	1538	SG	CYS		89	6.538	50.326	13.821	1.00 52.54	S
MOTA	1539	N	VAL		90	9.907	50.205	12.473	1.00 45.45	n C
MOTA	1540	CA	VAL		90	10.919	51.096	13.007	1.00 48.36 1.00 49.57	Č
MOTA	1541	C	VAL		90	11.787	51.723	11.909 12.121	1.00 49.57	·
MOTA	1542	0	VAL		90	12.399	52.768 50.331	14.107	1.00 48.77	Č
MOTA	1543	CB	VAL		90	11.681 12.903	51.039	14.582	1.00 51.24	Č
MOTA	1544		VAL		90	10.793	50.256	15.316	1.00 48.76	č
MOTA	1545		VAL		90 91	11.834	51.181	10.695	1.00 50.84	n
ATOM	1546	N	LYS		91	12.492	51.870	9.600	1.00 52.46	č
ATOM	1547	CA	LYS		91	11.615	52.881	8.847	1.00 53.71	· č
MOTA	1548	0	LYS		91	12.139	53.730	8.127	1.00 52.07	ō
ATOM	1549		LYS		91	13.135	50.840	8.721	1.00 54.00	Č
MOTA	1550	CB CG	LYS		91	14.290	50.209	9.508	1.00 59.12	č
ATOM	1551		LYS		91	14.955	49.089	8.690	1.00 63.16	Č
ATOM	1552	CD				16.176	48.420	9.367	1.00 66.55	č
ATOM	1553	CE NZ	LYS		91 91	16.631	47.252	.8.605	1.00 68.43	N
ATOM	1554		GLU		92	10.283	52.858	9.066	1.00 56.63	n
ATOM	1555	n Ca	GLU		92	9.333	53.861			
MOTA	1556		GLU		92	9.366	55.130	9.381	1.00 60.82	č
ATOM	1557	C	GLU		92	9.635	56.189	8.802	1.00 61.59	ŏ
ATOM	1558		GLU		92	7.852	53.434	8.599	1.00 60.60	č
ATOM	1559	CB CG	GLU		92	7.388	52.228	7.784	1.00 63.20	č
ATOM	1560		GLU		92	7.621	52.275	6.273	1.00 66.00	Č
MOTA	1561	CD	GLU		92	7.843	53.369	5.709	1.00 65.65	ō
ATOM	1562		GLU		92	7.564	51.187	5.667	1.00 67.41	ŏ
MOTA	1563	N	ASN		93	9,061	54.977	10.698	1.00 62.57	N
MOTA	1564 1565	CA	ASN		93	9.063	56.041	11.714	1.00 64.84	Ċ
MOTA	7262	~n	-W314	_		3.000		,		_

ATOM	1566	С	ASN	В	93	10.247	56.971	11.593				С
MOTA	1567	0	ASN	В	93	11.368	56.721	12.018		65.03		O.
MOTA	1568	CB	asn	В	93	9.069	55.511	13.153		63.55		C
MOTA	1569	N	SER	В	94	9.868	58.041	10.904		68.52		N
MOTA	1570	CA	SER		94	10.773	58.985	10.254		70.87		C
MOTA	1571	С	SER	В	94	11.391	60.076	11.141		71.17		C
MOTA	1572	0	SER		94	12.292	60.821	10.689		72.46		0
ATOM	1573	CB	SER		94	10.028	59.573	9.039		71.38		Ç
MOTA	1574	OG	SER		94	8.711	60.001	9.407		73.36	•	0
MOTA	1575	N	SER		95	10.923	60.135	12.415		68.97		N
MOTA	1576	CA	SER		95	11.564	60.953	13.424		68.06	•	C
MOTA	1577	C	SER		95	13.040	60.572	13.473		67.28		ò
MOTA	1578	0_	SER		95	13.457	59.458	13.839 14.794		64.89 68.06		č
MOTA	1579	CB	SER		95	10.932	60.795	15.670		69.36		ŏ
MOTA	1580	OG	SER		95	11.441	61.800	12.916		66.92		N
MOTA	1581	N	LYS		96	13.755	61.565 61.518	12.771		67.27		Ĉ
MOTA	1582	CA	LYS		96	15.199	60.974	14.056		66.10		č
MOTA	1583	Ç	LYS		96 96	15.848 16.615	59.996	14.014		64.46		ŏ
ATOM	1584	0	LYS		96	15.699	62.948	12.478		67.07		č
ATOM	1585	CB	ASP		97	15.289	61.560	15.147		64.54		N
ATOM	1586 1587	N CA	ASP		97	15.657	61.369	16.562		62.82		C
ATOM ATOM	1588	C	ASP		97		59.968	17.239		60.00	•	C
	1589	õ	ASP		97	16.792	59.674	17.852		59.90		0
ATOM ATOM	1590	CB	ASP		97	14.689	62.230	17.394	1.00	63.85		C
ATOM	1591	N	LEU		98	14.638	59.137	17.174		53.67		N
ATOM	1592	CA	LEU		98	14.641	57.690	17.447	1.00	44.35		C
MOTA	1593	Č	LEU		98	15.837	57.135	16.728	1.00	40.32		C
MOTA	1594	ō	LEU		98	15.868	57.109	15.497	1.00	40.10		0
MOTA	1595	CB	LEU		98	13.389	56.996	16.916		41.21	•	C
MOTA	1596	CG	LEU	В	98	13.251	55.479	17.095		40.48		C
ATOM	1597	CD1	LEU	В	98	11.904	55.030	17.695		39.61		C
MOTA	1598	CD2	LEU	В	98	13.519	54.787	15.784		37.90		C
MOTA	1599	N	LYS	В	99	16.815	56.840	17.593		36.84		N
MOTA	1600	CA	LYS	В	99	18.171	56.457	17.229		35.08		C
MOTA	1601	С	LYS		99	18.141	55.218	16.365		34.40		C
ATOM	1602	0	LYS		99	17.600	54.164	16.712		34.91		0
MOTA	1603	СВ	LYS		99	19.028	56.193	18.485		35.16		C
MOTA	1604	CG	LYS		99	20.550	56.058	18.286		37.24 36.33		Č
ATOM	1605	CD	LYS		99	21.314	55.641	19.556 19.594		38.98		č
ATOM	1606	CE	LYS		99	22.817 23.617	55.994 55.657	18.428		38.67		Ŋ
MOTA	1607	NZ	LYS		99	18.689	55.387	15.174		34.28		N
MOTA	1608	N	LYS LYS		100	18.726	54.285	14.232		34.35		Ĉ
ATOM	1609	CA	LYS			20.147	53.964	13.811		31.26		Č
ATOM	1610	C	LYS			20.368	52.917	13.224		32.09		O
ATOM	1611 1612	СВ	LYS			17.832	54.592	13.044		36.01		C
MOTA	1613	CG	LYS		100	16.335	54.635	13.349	1.00	38.72		C
MOTA MOTA	1614	CD	LYS		100	15.782	55.851	12.617	1.00	43.22		C
MOTA	1615	ÇE	LYS			14,290	55.723	12.370	1.00	43.50	:	C
ATOM	1616	NZ			100	13.982	55.990	10.969	1.00	43.57		N
MOTA	1617	N	SER			21.120	54.814	14.159	1.00	29.00		N
MOTA	1618	CA	SER			22.529	54.614	13.871		28.55		С
MOTA	1619	Ċ.			101	23.351	54.047	15.032		28.24		C
MOTA	1620	ō.	SER			23.732	54.783	15.943		31.98		0
ATOM	1621	CB	SER	В	101	23.049	55.977	13.473		27.88		C
MOTA	1622	OG			101	24.459	55.979	13.457		27.09	- '	. 0
ATOM	1623	N	PHE	В	102	23.680	52.766	15.077		27.56		N
ATOM	1624	CA	PHE	В	102	24.364	52.184	16.230		27.12		C
MOTA	1625	C	PHE	В	102	25.620	51.495	15.755	1.00	28.99		C

MOTA	1626	0	PHE	В	102	25.613	51.001	14.627	1.00 28.31	0
MOTA	1627	CB	PHE	В	102	23.538	51.127	16.945	1.00 22.35	С
MOTA	1628	CG	PHE	В	102	22.247	51.672	17.462	1.00 20.73	C
MOTA	1629		PHE			21.206	51.877	16.608	1.00 22.70	C
MOTA	1630	CD2	PHE			22.105	51.932	18.801	1.00 24.01	C
ATOM	1631	CE1	PHE			20.007	52.325	17.098	1.00 23.86	С
MOTA	1632	CE2	PHE			20.892	52.343	19.295	1.00 23.54	C
MOTA	1633	CZ	PHE			19.837	52.536	18.435	1.00 23.17	C
MOTA	1634	N	LYS			26.691	51.459	16.575	1.00 30.21	. N
MOTA	1635	CA	LYS			27.823	50.595	16.284	1.00 30.86	c
MOTA	1636	Ç	LYS			27.374	49.171	16.550	1.00 32.14	c
MOTA	1637	0	LYS			26.583	48.957	17.472	1.00 33.74	0
MOTA	1638	CB	LYS			28.965	50.952	17.200	1.00 32.77	C
MOTA	1639	N	SER			27.788	48.202	15.720	1.00 32.95	С И
MOTA	1640	CA	SER			27.284	46.825	15.805 17.145	1.00 33.85	c
MOTA	1641	C	SER			27.695 28.891	46.249 46.121	17.418	1.00 31.14 1.00 32.16	Ö
MOTA	1642	<u> </u>	SER			27.812	45.908	14.692	1.00 36.29	č
MOTA	1643	CB	SER			28.690	46.589	13.784	1.00 36.23	Ö
MOTA	1644	N OG	PRO			26.737	45.950	18.023		N
MOTA	1645	CA	PRO			27.026	45.601	19.393	1.00 27.39	Ċ
MOTA	1646 1647	C.	PRO			27.816	44.315	19.472	1.00 26.85	č
MOTA MOTA	1648	ō	PRO			27.947	43.532	18.527	1.00 29.04	ō
MOTA	1649	СВ	PRO			25.66B	45.476	19.982	1.00 26,67	Ċ
ATOM	1650	CG	PRO			24.803	46.313	19.104	1.00 26.85	Č
ATOM	1651	CD	PRO			25.308	45.910	17.747	1.00 26.48	С
ATOM	1652	N	GLU			28.426	44.160	20.628	1.00 27.12	N
ATOM	1653	CA	GLU			29.240	42.982	20.897	1.00 27.97	С
ATOM	1654	C	GLU			28.299	41.806	21.172	1.00 25.13	C
ATOM	1655	ŏ	GLU			27.294	41.966	21.870	1.00 21.99	0
ATOM	1656	CB	GLU	В	106	30.140	43.258	22.105	1.00 30.05	C
ATOM	1657	CG	GLU	В	106	31.418	42.451	22.220	1.00 35.47	. С
MOTA	1658	CD	GLU	В	106	32.045	42.483	23.613	1.00 40.01	С
ATOM	1659	OE1	GLU	В	106	32,162	43.570	24.198	1.00 41.10	, 0
ATOM	1660	OE2	GLU			32.431	41.409	24.102	1.00 42.35	0
MOTA	1661	N	PRO			28.564	40.640	20.578	1.00 23.74	N
MOTA	1662	CA	PRO	_		27.806	39.423	20.817	1.00 24.07	· c
MOTA	1663	Ç	PRO			27.906	38.967	22.264	1.00 22.95	C
MOTA	1664	0_	PRO			28.989	38.920	22.832	1.00 24.47	. 0
MOTA	1665	CB	PRO			28.437	38.439	19.837	1.00 24.75 1.00 25.17	c
MOTA	1666	CG	PRO			28.949	39.309	18.715 19.512	1.00 24.46	č
MOTA	1667	ČD.	PRO			29.556 26.765	40.448 38.677	22.884	1.00 22.39	n
MOTA	1668	N	ARG			26.684	38.164	24.239	1.00 20.57	č
MOTA	1669	CA	ARG			25.904	36.865	24.227	1.00 17.43	č
MOTA	1670	.O	ARG			24.954	36.685	23.488	1.00 17.22	ŏ
MOTA	1671 1672	CB	ARG			26.064		25.256	1.00 20.10	č
ATOM ATOM	1673	CG	ARG			27.007	40.157	25.848	1.00 21.68	, Č
ATOM	1674	CD	ARG			26.321	41.144	26.778	1.00 25.69	C
ATOM	1675	NE	ARG			25.859	40.576	28.047	1.00 27.65	N
MOTA	1676	CZ	ARG			25.517	41.345	29.084	1.00 26.15	C
ATOM	1677		ARG			25.637	42.653	29.004	1.00 26.98	N
ATOM	1678		ARG			25.031	40.819	30.217	1.00 27.28	N
ATOM	1679	N	LEU			26.320	35.964	25.078	1.00 16.44	N
MOTA	1680	CA	LEU			25.649	34.700	25.242	1.00 19.58	C
ATOM	1681	C	LEU			24.667	34.827	26.384	1.00 19.57	С
ATOM	1682	ō	LEU	В	109	24.963	35.423	27.418		
ATOM	1683	CB	LEU			26.626	33.555	25.533	1.00 18.89	C
ATOM	1684	CG	LEU	В	109	27.661	33.129	24.491	1.00 20.14	. с
ATOM	1685	CD1	LEU	В	109	28.673	32.188	25.119	1.00 18.71	С

ATOM	1686	CD2	LEU	В	109	26.985	32.436	23.316	1.00	22.74		С
ATOM	1687	N	PHE			23.477	34.293	26.119		19.30		N
MOTA	1688	CA	PHE			22.372	34.322	27.050		18.85		Ç
MOTA	1689	C	PHE	_		21.748	32.939	27.188		19.38	,	C
MOTA	1690	0_	PHE			21.676	32.205	26.207		18.43		0
MOTA	1691	CB	PHE			21.312	35.298	26.553		17.38		c
MOTA	1692	CG	PHE			21.743	36.756	26.567		19.20		C
MOTA	1693		PHE			21.733	37.487	27.744		20.10		C
ATOM	1694		PHE			22.198 22.211	37.350 38.788	25.408 27.755		19.07 19.86		2
ATOM	1695	-	PHE			22.211	38.650	25.436		15.79		Ċ
MOTA	1696	CE2	PHE			22.659	39.367	26.596		17.86		Ċ
MOTA	1697 1698	CZ N	THR			21.246	32.547	28.376		18.40		N
ATOM ATOM	1699	CA	THR			20.431	31.336	28.505		14.95		ë
ATOM	1700	c	THR			19.077	31.537	27.823		14.86		č
ATOM	1701	ŏ	THR			18.720	32.705	27.696		18.62		ŏ
ATOM	1702	СВ	THR			20.254	30.986	30.016		10.83		Č
ATOM	1703		THR			19.440	32.008	30.536		14.68		0
ATOM	1704		THR				31.006	30.845	1.00	11.33		C
ATOM	1705	N	PRO			18.205	30.602	27.418	1.00	14.14		N
ATOM	1706	CA	PRO			16.903	30.899	26.832	1.00	12.85		C
ATOM	1707	C	PRO			16.055	31.789	27.714	1.00	15.00		C.
ATOM	1708	0	PRO	В	112	15.351	32.679	27.268	1.00	16.67		0
ATOM	1709	CB	PRO	В	112	16.297	29.536	26.730		13.18		Ċ
ATOM	1710	CG	PRO	B.	112	17.459	28.689	26.406		11.71		C
MOTA	.1711	CD	PRO	_		18.482	29.179	27.402		12.63		C
MOTA	1712	N	GLU			16.103	31.597	29.015		17.42		N
MOTA	1713	CA	GLU			15.375	32.431	29.945		19.68		C C
MOTA	1714	Ċ	GLU			15.802	33.888	29.901		18.59		Ö
MOTA	1715	0	GLU			14.931	34.751 31.841	29.885 31.328		21.48 22.92		č
ATOM	1716	CB	GLU			15.546	32.707	32.439		32.95		č
MOTA	1717	CG	GLU		113	14.984 15.763	32.704	33.770		39.93		č
MOTA	1718	CD OE1	GLU			16.869	33.281	33.900		41.39		ō
ATOM	1719 1720		GLU			15.193	32.144	34.712		44.90		ŏ
MOTA MOTA	1721	N	GLU			17.096	34.210	29.885		18.49		N
ATOM	1722	CA	GLU			17.601	35.576	29.760		17.43		C
ATOM	1723	c	GLU			17.321	36.289	28.451	1.00	16.60		C
MOTA	1724	ŏ	GLU			16.910	37.449	28.404	.1.00	19.48		0
ATOM	1725	CB	GLU	В	114	19.090	35.543	29.980	1.00	19.55		С
ATOM	1726	CG	GLU	В	114	19.486	35.319	31.442		23.40		C
ATOM	1727	CD	GLU	В	114	20.962	35.034	31.718		25.98		C
MOTA	1728	OEl	GLU	В	114	21.730	34.826	30.765		25.41		0
ATOM	1729	OE2	GLU			21.322	34.982	32.906		28.77		0
MOTA	1730	N			115	17.507	35.551	27.379		14.86		N
MOTA	1731	CA	PHE		-	17.212	35.998	26.023		15.76		C
MOTA	1732	С			115	15.776	36.422	25.843	_	14.74		· · · C
MOTA	1733	0			115	15.474	37.469	25.295		16.04		· 0
MOTA	1734	CB			115	17.513	34.865	25.012 23.572		16.76		Č
MOTA	1735	CG		_	115	17.384	35.323 36.062	22.990		15.08		Č
ATOM	1736		PHE			16.217	35.063	22.881		16.51		č
MOTA	1737	CDZ	PHE	Þ	115	18.169	36.611	21.755		15.92		č
ATOM	1738		PHE			16.024	35.579	21.619		13.36		č
ATOM	1739	CEZ			115	16.994	36.364	21.079		14.28		č
ATOM	1740 1741	N			116	14.897	35.549	26.284		15.61		N
MOTA	1741	CA			116	13.497	35.810	26.150		15.94	•	Ĉ
MOTA MOTA	1743	C			116	12.918	36.798	27.125		16.92	•	Ċ
ATOM	1744	ŏ .			116	11.842	37.326	26.862	1.00	18.97		0
ATOM	1745	CB			116	12.759	34.499	26.111	1.00	16.90		C
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MOTA	1746	CG	PHE	В	116	12.962	33.796	24.776	1.00 16.87	С
ATOM	1747	CD1	PHE	В	116	12.315	34.278	23.639	1.00 16.00	C
ATOM	1748		PHE			13.830	32.714	24.689	1.00 17.13	С
ATOM	1749		PHE			12.558	33.654	22.429	1.00 17.64	C
ATOM	1750		PHE			14.079	32.114	23.482	1.00 16.31	С
ATOM	1751	cz	PHE			13.427	32.582	22.349	1.00 17.77	Ċ
			ARG			13.629	37.094	28.208	1.00 17.01	N
ATOM	1752	N	ARG			13.292	38.189	29.085	1.00 18.94	č
ATOM	1753	CA				13.636	39.492	28.388	1.00 20.76	č
MOTA	1754	Ç	ARG				40.526	28.561	1.00 21.80	ŏ
ATOM	1755	0_	ARG			12.988				
MOTA	1756	CB	ARG			14.124	38.043	30.361	1.00 22.28	C
MOTA	1757	CG	ARG			13.889	39.003	31.538	1.00 29.21	C
ATOM	1758	CD	ARG			13.292	38.359	32.834	1.00 35.23	C
MOTA	1759	NE	ARG			14.094	37.253	33.357	1.00 37.19	N
MOTA	1760	CZ	ARG			15.408	37.373	33.616	1.00 42.10	C
ATOM	1761	NH1	ARG	В	117	16.023	38.568	33.647	1.00 45.58	N.
ATOM	1762	NH2	ARG	B	117	16.151	36.268	33.794	1.00 43.18	N
ATOM	1763	N	ILE	B	118	14.709	39.453	27.596	1.00 20.97	N
ATOM	1764	CA	ILE			15.078	40.588	26.807	1.00 18.77	· C
ATOM	1765	·C	ILE			14.103	40.799	25.662	1.00 20.54	С
ATOM	1766	Ö	ILE			13.592	41.896	25.487	1.00 20.49	0
ATOM	1767	СВ	ILE			16.498	40.364	26.385	1.00 16.96	C
MOTA	1768		ILE			17.377	40.504	27.587	1.00 12.82	С
ATOM	1769	CG2	ILE			16.892	41.347	25.310	1.00 15.77	С
ATOM	1770	CD1				18.851	40.271	27.253	1.00 14.00	С
	1771	N	PHE			13.817	39.736	24.922	1.00 22.16	N
ATOM			PHE			12.840	39.717	23.864	1.00 23.96	C
ATOM	1772	CA	PHE			11.528	40.271	24.356	1.00 26.51	Č
ATOM	1773	C				10.934	41.093	23.674	1.00 29.24	ŏ
ATOM	1774	0	PHE				38.299	23.364	1.00 22.84	č
MOTA	1775	CB	PHE			12.660	38.173	22.327	1.00 24.88	C
MOTA	1776	CG	PHE			11.555			1.00 25.69	č
ATOM	1777		PHE			11.811	38.512	21.006		č
ATOM	1778		PHE			10.271	37.803	22.727	1.00 24.94	COC
ATOM	1779		PHE			10.748	38.539	20.122	1.00 25.07	Č
ATOM	1780	CE2	PHE			9.216	37.831	21.844	1.00 24.69	<u> </u>
MOTA	1781	CZ	PHE			9.465	38.212	20.539	1.00 25.22	C
MOTA	1782	N	ASN			11.076	39.898	25.540	1.00 29.22	N
MOTA	1783	CA	ASN			9.863	40.470	26.094	1.00 31.04	C
MOTA	1784	С	asn			9.953	41.939	26.499	1.00 32.79	· C
MOTA	1785	0	ASN	В	120	9.018	42.684	26.204	1.00 34.41	. 0
MOTA	1786	CB .	ASN	В	120	9.343	39.640	27.253	1.00 29.44	Ċ
MOTA	1787	CG	ASN			8.856	38.301	26,738	1.00 33.04	C
MOTA	1788	OD1	ASN	В	120	8.264	38.216	25.651	1.00 32.93	0
MOTA	1789	ND2	ASN	В	120	9.110	37.237	27.508	1.00 31.91	N
MOTA	1790	N	ARG	В	121	11.018	42.436	27.140	1.00 32.47	N
MOTA	1791	CA	ARG	В	121	11.117	43.849	27.465	1.00 30.92	С
ATOM	1792/	c	ARG			11.067	44.709	26.204	1.00 29.78	C
MOTA	1793	Ō	ARG			10.444	45.760	26.207	1.00 28.95	. 0
ATOM	1794	СВ	ARG			12.391	44.075	28.271	1.00 33.61	С
	_	CG	ARG			12.655	45.523	28.664	1.00 41.90	C
ATOM	1795		ARG			11.463	46.261	29.336	1.00 48.78	С
ATOM	1796	CD	ARG			11.048	47.453	28.567	1.00 55.93	N
ATOM	1797	NE				11.568	48.694	28.762	1.00 59.13	Ĉ
MOTA	1798	CZ	ARG			12.543	48.894	29.659	1.00 60.86	N
MOTA	1799	NH1					49.767	28.074	1.00 60.62	N
ATOM	1800	NHS				11.124			1.00 29.04	N
ATOM	1801	N			122	11.680	44.225	25.121		
MOTA	1802	CA			122	11.818	44.920	23.854	1.00 27.66	c
MOTA	1803	С			122	10.512	45.006	23.126	1.00 29.01	C
MOTA	1804	0			122	10.198	46.085	22.634	1.00 30.77	0
MOTA	1805	CB	SER	В	122	12.808	44.195	22.954	1.00 24.91	С

MOTA	1806	OG	SER B	122	14.125	44.237	23.464	1.00 21.03
MOTA	1807	N	ILE B		9.765	43.896	23.061	1.00 30.73
MOTA	1808	CA	ILE B		8.427	43.886	22.488	1.00 33.96
MOTA	1809	С	ILE B		7.513	44.857	23.232	1.00 38.09
MOTA	1810	0	ILE B		6.743	45.579	22.610	1.00 38.61
ATOM	1811	CB	ILE B		7.863	42.445	22.513	1.00 33.36
MOTA	1812	CG1	ILE B		8.567	41.492	21.559	1.00 33.77
MOTA	1813	CG2	ILE B		6.385	42.334	22.276	1.00 35.01
MOTA	1814	CD1	ILE B		8.539	41.729	20.058	1.00 31.14
ATOM	1815	N	ASP B		7.638	44.925	24.562	1.00 42.48
MOTA	1816	CA	ASP B		6.868	45.809	25.424	1.00 45.69
MOTA	1817	С	ASP B		7.347	47.237	25.404	1.00 45.68 1.00 46.88
MOTA	1818	0	ASP B		6.592	48.118	25.836	
ATOM	1819	CB	ASP B		6.915	45.381	26.912	1.00 50.45 1.00 56.00
MOTA	1820	CG	ASP B		6.483	43.950	27.274	
MOTA	1821		ASP E		5.766	43.310	26.481	1.00 61.21 1.00 56.72
MOTA	1822		ASP E		6.883	43.461	28.344	1.00 46.60
MOTA	1823	N	ALA E		8.599	47.461	24.970 24.903	1.00 47.64
MOTA	1824	CA	ALA E		9.190	48.801 49.664	23.926	1.00 48.60
MOTA	1825	C	ALA E		8.420	50.882	24.081	1.00 48.65
MOTA	1826	0_	ALA E		8.412	48.781	24.422	1.00 46.01
MOTA	1827	CB	ALA E		10.643 7.752	49.014	22.960	1.00 50.56
MOTA	1828	N	PHE E			49.695	22.055	1.00 54.13
MOTA	1829	CA	PHE E		6.834	50.182	22.688	1.00 57.79
ATOM	1830	C	PHE E	1.126	5.525 5.141	51.334	22.460	1.00 59.99
MOTA	1831	0_	PHE E		6.538	48.850	20.810	1.00 51.52
MOTA	1832	CB	PHE E		7.721	48.691	19.873	1.00 49.43
MOTA	1833	CG	PHE I		8.650	47.685	20.086	1.00 48.93
ATOM	1834		PHE I		7.872	49.550	18.804	1.00 48.24
MOTA	1835		PHE I		9.721	47.531	19.226	1.00 47.28
MOTA	1836		PHE I		8.960	49.402	17.969	1.00 46.11
MOTA	1837	CZ		3 126		48.401	18.174	1.00 45.91
MOTA	1838		LYS I		4.843	49.346	23.505	1.00 61.28
ATOM	1839	n Ca	LYS		3.558	49.636	24.178	1.00 62.20
MOTA	1840 1841	č	LYS		3.454	50.906	25.026	1.00 62.03
MOTA	1842	ŏ	LYS		2.394	51.539	25.092	1.00 61.71
MOTA	1843	СВ	LYS		3.115	48.458	25.090	1.00 64.81
MOTA	1844	CG	LYS		2.463	47.185	24.502	1.00 65.92
ATOM	1845	æ	LYS		2.082	46.311	25.702	1.00 67.81
ATOM ATOM	1846	CE	LYS		2.369	44.834	25.433	1.00 69.44
MOTA	1847	NZ	LYS		2.594	44.129	26.691	1.00 68.14
ATOM	1848	N	ASP		4.561	51.200	25.719	1.00 62.76
ATOM	1849	CA	ASP I		4.736	52.380	26.554	1.00 62.70
ATOM	1850	Č	ASP		5.573	53.412	25.794	1.00 63.56
ATOM	1851	ŏ	ASP !		6.638	53.838	26.251	1.00 64.23
ATOM	1852	CB	ASP 1		5.480	51.925	27.833	1.00 62.32
ATOM	1853	N	PHE	B 129	5.128	53.802	24.587	1.00 64.47
ATOM	1854	CA	PHE	B 129	5.813	54.828	23.801	1.00 65.58
ATOM	1855	C	PHE	B 129	5.172	56.224	23.900	1.00 66.25
ATOM	1856	0	PHE	B 129	4.145		23.258	1.00 67.17
MOTA	1857	CB	PHE	B 129	5.971	54.368	22.338	1.00 64.56
ATOM	1858	CG	PHE	B 129	7.424	54.230	21.907	1.00 63.61
MOTA	1859	CD1	PHE	B 129	8.187	55.356	21.634	1.00 64.45
ATOM	1860	CD2	PHE	B 129	7.979	52.977	21.775	1.00 62.93
ATOM	1861	CE1	PHE	B 129	9.503	55.219	21.235	1.00 64.07
ATOM	1862	CE2	PHE	B 129	9.291	52.837	21.378	1.00 63.56
ATOM	1863	CZ	PHE	B 129		53.959	21.111	1.00 64.70
ATOM	1864	N		B 137	17.272	62.584	24.623	1.00 55.18
ATOM	1865	CA	ASP	B 137	18.560	63.025	24.106	1.00 54.96

									•		
ATOM	1866	C	ASP	B :	137	19.597	61.931	23.769	1.00 55.95		C
MOTA	1867	0	ASP	B :	137	20.291	62.026	22.743	1.00 55.11		0
MOTA	1868	CB	ASP			19.180	63.952	25.136	1.00 53.99		C
MOTA	1869	N	CYS			19.669	60.900	24.656	1.00 55.99		N
MOTA	1870	CA	CYS			20.594	59.741	24.665	1.00 55.50		C
MOTA	1871	C	CYS			22.065	59.964	25.031	1.00 55.10		C
MOTA	1872	0	CYS	-		22.723	58.973	25.357	1.00 55.77		0
ATOM	1873	CB.	CYS			20.486	58.822	23.416	1.00 53.55		C
MOTA	1874	SG	CYS			18.766	58.362	23.058	1.00 53.01	•	S
TER	1876		CYS					45 345			
MOTA	1877	N	ASN		11	51.574	13.978	45.345	1.00 51.40		N
MOTA	1878	CA	ASN		11	50.150	14.075 15.080	45.169	1.00 50.61 1.00 51.75		C C
MOTA	1879	C	ASN		11	49.636 49.446	16.244	46.231 45.828	1.00 52.28		ŏ
MOTA	1880	0	asn asn		11	49.486	12.671	45.271	1.00 48,14		č
MOTA	1881	CB	VAL	-	11 12	49.577	14.664	47.548	1.00 49.74		N
MOTA	1882	N CA	VAL		12	48.941	15.269	48.771	1.00 46.17		c
MOTA	1883 1884	C	VAL		12	49.317	16.681	49.255	1.00 43.47		č
MOTA	1885	ŏ	VAL		12	48.526	17.397	49.868	1.00 42.02		ŏ
MOTA MOTA	1886	CB	VAL		12	49.032	14.271		1.00 47.02		Č
ATOM	1887		VAL		12	50.479	14.042	50.561	1.00 46.01		C
MOTA	1888		VAL		12	48.129	14.662	51.233	1.00 44.78		С
MOTA	1889	N	LYS		13	50.588	17.052	49.054	1.00 43.09		N
ATOM	1890	CA	LYS		13	51.082	18.424	49.218	1.00 39.49		С
ATOM	1891	C	LYS		13	50.370	19.321	48.180	1.00 36.49		C
ATOM	1892	0	LYS	С	1:3	49.910	20.435	48.472	1.00 35.14		0
ATOM	1893	CB	LYS	C	13	52.643	18.424	48.986	1.00 37.77		C
MOTA	1894	N	ASP		14	50.231	18.776	46.951	1.00 33.25	•	N
ATOM	1895	CA	ASP		14	49.522	19.456	45.898	1.00 27.29		c
MOTA	1896	C	ASP		14	48.042	19.262	45.991	1.00 21.51		C
MOTA	1897	0	ASP		14	47.408	20.205	45.602	1.00 20.53		0
MOTA	1898	СВ	ASP		14	50.101	19.142	44.565	1.00 31.10		C
MOTA	1899	CG	ASP		14	51.439	19.856	44.288 45.155	1.00 35.88 1.00 37.80		Ö
ATOM	1900	ODI	ASP	Ċ	14	52.043	20.514 19.755	43.143	1.00 37.00		ŏ
MOTA	1901		ASP VAL		14	51.890 47.447	18.202	46.526	1.00 15.89		N
MOTA	1902	N	VAL		15 15	46.073	18.270	46.962	1.00 16.75		C
MOTA	1903	CA	VAL		15	45.796	19.433	47.938	1.00 17.73		Ċ
MOTA	1904 1905	C O	VAL		15	44.821	20.167	47.775	1.00 18.15		ō
MOTA MOTA	1906	CB.	VAL		15	45.653	16.905	47.548	1.00 17.03		C
ATOM	1907		VAL		15	44.266	16.920	48.161	1.00 15.16		C
ATOM	1908		VAL		15	45.656	15.889	46.430	1.00 17.49		C
MOTA	1909	N	THR		16	46.659	19.692	48.910	1.00 17.16		N
ATOM	1910	CA	THR		16	46.513	20.824	49.806	1.00 16.51		С
ATOM	1911	С	THR	С	16	46.660	22.151	49.096	1.00 15.07		C
ATOM	1912	0	THR		16	45.901	23.049	49.418	1.00 16.99		0
ATOM	1913	CB	THR		16	47.533	20.674	51.000	1.00 17.35		C
MOTA	1914	OG1	THR		16	47.059	19.546	51.734	1.00 19.10		0
ATOM	1915	CG2	THR		16	47.615	21.868	51.934	1.00 11.74		· N
MOTA	1916	N	LYS		17	47.562	22.381	48.160 47.390	1.00 13.81		C
MOTA	1917	CA	LYS		17	47.496			1.00 15.88		·c
MOTA	1918	C	LYS		17	46.197	23.789 24.877	46.541 46.465	1.00 16.97		0
MOTA	1919	0_	LYS		17	45.608	23.598	46.505			C
MOTA	1920	CB	LYS		17	48.702 50.006	23.596	47.257			Č
MOTA	1921	CG ·			17	51.103	23.441	46.198			C
ATOM	1922	CD	LYS		17	52.486	23.537	46.798		•	Č
MOTA	1923	CE	LYS		17 17	52.730	24.883	47.284			N
MOTA	1924	nz N	LEU			45.682	22.736	45.880			N
MOTA	1925	CA	LEU		18	44.454	22.764	45.149			Ċ
MOTA	1926	CA.	250	_							

MOTA	1927	С	LEU C	18	43.333	23.111	46.047	1.00 10.78	
MOTA	1928	0	LEU C	18	42.612	24.032	45.691	1.00 16.08	
MOTA	1929	CB	TEA C	18	44.129	21.412	44.609	1.00 12.69	
MOTA	1930	CG	TER C		42.973	21.312	43.632	1.00 15.70	
MOTA	1931	CD1	TEA C	18	43.151	22.220	42.429	1.00 9.04	•
MOTA	1932	CD2	LEU C	18	42.864	19.875	43.248	1.00 15.11	
MOTA	1933	N	VAL C	19	43.155	22.484	47.210	1.00 11.81	
MOTA	1934	CA	VAL C	19	42.092	22.868	48.138	1.00 12.12	
MOTA	1935	С	VAL C	19	42.159	24.359	48.569	1.00 13.12	•
MOTA	1936	0	VAL C	19	41.144	25.056	48.607	1.00 14.59	
MOTA	1937	CB	VAL C		42.041	21.868	49,328	1.00 12.63	
MOTA	1938	CG1	VAL C	19	40.984	22.267	50.328	1.00 11.49	
ATOM	1939	CG2	VAL C	19	41.661	20.496	48.835	1.00 12.48	
ATOM	1940	N	ALA C	20	43.362	24.909	48.821	1.00 13.02	
ATOM	1941	CA	ALA C	20	43.532	26.278	49.252	1.00 11.77	
ATOM	1942	С	ALA C	20	43.254	27.224	48.126	1.00 11.25	
ATOM	1943	0	ALA C	20	42.888	28.357	48.344	1.00 14.74	
ATOM	1944	CB	ALA C	20	44.975	26.452	49.635	1.00 10.68	•
ATOM	1945	N	ASN C	21	43.461	26.757	46.895	1.00 15.11	
ATOM	1946	CA	ASN C	21	43.197	27.471	45.648		• •
ATOM	1947	C	ASN C	21	41.898	27.107	44.949	1.00 13.09	
ATOM	1948	Ō	ASN C		41.663	27.533	43.815	1.00 18.62	
ATOM	1949	CB	ASN C	21	44.318	27.149	44.717	1.00 12.84	
ATOM	1950	CG	ASN C		45.401	28.151	44.755	1.00 12.42	
MOTA	1951	OD1	ASN C	21	45.277	29.229	45.315	1.00 14.66	
MOTA	1952	ND2	ASN C		46.503	27.827	44.131	1.00 12.99	
MOTA	1953	N	LEU C	22	41.041	26.311	45.536	1.00 12.25	
MOTA	1954	CA	LEU C	22	39.691	26.194	45.063	1.00 12.28	
ATOM	1955	С	LEU C	22	38.831	27.012	45.972	1.00 12.85	٠.
MOTA	1956	0	LEU C		39.216	27.109	47.126	1.00 17.11	
ATOM	1957	CB	LEU C		39.202	24.755	45.039	1.00 10.06	• •
ATOM	1958	CG	LEU C		39.745	23.906	43.936	1.00 9.08	
ATOM	1959		LEU C		39.380	22.464	44.120	1.00 8.06	
ATOM	1960	CD2	LEU C		39.124	24.394	42.666	1.00 11.26	
MOTA	1961	N	PRO C		37.706	27.649	45.629	1.00 12.49	
MOTA	1962	CA	PRO C		36.902	28.384	46.592	1.00 12.26	
ATOM	1963	C	PRO C		36.214	27.457	47.604	1.00 13.42	
MOTA	1964	0	PRO C		35.695	26.416	47.220	1.00 13.22 1.00 13.14	٠.
ATOM	1965	CB	PRO C		35.923	29.108	45.681		
MOTA	1966	CG	PRO C		36.407	29.009	44.237	1.00 9.94 1.00 12.73	
ATOM	1967	CD	PRO C		37.094	27.667	44.292	1.00 13.54	
MOTA	1968	N	LYS C		36.216	27.796	48.898 49.919	1.00 17.03	
MOTA	1969	CA	LYS C		35.515	27.039 26.703	49.596	1.00 17.41	
MOTA	1970	C	LYS C		34.053 33.500	25.693	50.011	1.00 15.96	
ATOM	1971	0_	LYS C			27.845	51.228	1.00 17.76	
ATOM	1972	CB	LYS C		35.591	27.585	51.896	1.00 22.90	
ATOM	1973	CG	LYS C		36.918 37.423	28.782	52.700	1.00 24.73	
MOTA	1974	CD	LYS C			28.608	53.191	1.00 25.32	
MOTA	1975	CE	LYS C	24	38.893	29.914	53.578	1.00 27.67	
MOTA	1976	NZ	LYS C		39.427		48.807	1.00 20.45	
ATOM	1977	N	ASP C		33.380 31.969	27.526 27.349	48.579	1.00 20.93	
ATOM	1978	CA	ASP C		31.690	26.924	47.164	1.00 19.35	
ATOM	1979	Ç	ASP C		30.617	27.146	46.603	1.00 21.38	
MOTA	1980	0	ASP (		31.316	28.665		1.00 23.07	
MOTA	1981	CB	ASP (		31.726	29.820	48.014	1.00 28.48	
ATOM	1982	CG	ASP (	25	32.736	29.755	47.329	1.00 29.48	
MOTA	1983	001	ASP (	25 25	31.018	30.829	48.006		
MOTA	1984				32.684	26.330			
MOTA	1985	N	TYR C		32.486	25.784	45.270		
MOTA	1986	CA	TIK (	. 40	32.400			=	

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## Figure 8-44

MOTA	1987	С	TYR	C	26	32.066	24.352	45.473	1.00 20.16	
MOTA	1988	0	TYR	C	26	32.672	23.586	46.210	1.00 20.74	
MOTA	1989	CB	TYR		26	33.787	25.925	44.505	1.00 18.65	
MOTA	1990	CG	TYR		26	33.779	25.389	43.087	1.00 15.43	
MOTA	1991		TYR		26	32.863	25.870	42.180	1.00 14.28	
MOTA	1992	CD2	TYR		26	34.687	24.394	42.740	1.00 18.66	
MOTA	1993	CEl	TYR		26	32.828	25.305	40.916	1.00 18.89	
MOTA	1994	CE2	TYR		26	34.680	23.853	41.457	1.00 18.57	
MOTA	1995	CZ	TYR		26	33.736	24.325	40.567	1.00 17.94	
ATOM	1996	OH	TYR		26	33.702	23.844	39.293	1.00 20.05	
HETATM	1997	N	MSE		27	30.992	23.977 22.643	44.806 44.960	1.00 22.38 1.00 23.82	
HETATM		CA	MSE		27	30.472	22.043	43.796	1.00 23.07	
HETATM		C	MSE		27 27	30.902 30.675	22.180	42.659	1.00 22.78	
HETATM	2000	0	MSE		27	28.966	22.685	45.023	1.00 27.76	
HETATM		CB			27	28.476	23.440	46.222	1.00 33.28	
HETATM	2002	CG	MSE MSE		27	29.250	22.864	47.919	1.00 47.63	
HETATM	2003	SE CE	MSE		27	28.807	24.413	48.975	1.00.42.81	
HETATM		N	ILE		28	31.514	20.637	44.127	1.00 23.36	
MOTA	2005	CA	ILE		28	31.890	19.552	43.196	1.00 24.49	
MOTA	2007	C	ILE		28	30.924	18.334	43.195	1.00 25.21	
ATOM ATOM	2008			č	28	30.568	17.795	44.237	1.00 24.49	
ATOM	2009	ČВ	ILE		28	33.364	19.075	43.497	1.00 21.68	
ATOM	2010		ILE		28	34.379	20.215	43.453	1.00 19.99	
MOTA	2011	CG2	ILE		28	33.796	18.049	42.485	1.00 19.57	
MOTA	2012		ILE		28	35.761	19.859	43.991	1.00 18.85	
ATOM	2013	N	THR		29	30.508	17.846	42.017	1.00 26.46	
ATOM	2014	CA	THR	C	29	29.637	16.688	41.888	1.00 26.80	
ATOM	2015	С	THR	C	29	30.388	15.361	41.957	1.00 27.21	
ATOM	2016	0	THR	С	29	31.299	15.084	41.182	1.00 26.27	
ATOM	2017	CB	THR		29	28.824	16.736	40.580	1.00 25.22	
MOTA	2018	OG1	THR		29	28.137	17.962	40.566	1.00 28.05	
MOTA	2019	CG2	THR		29	27.773	15.659	40.545	1.00 26.26	
ATOM	2020	N	LEU		30	29.980	14.498	42.878	1.00 27.91	
ATOM	2021	CA	LEU		30	30.519	13.157	42.943 43.168	1.00 29.69 1.00 31.34	
MOTA	2022	C	LEU		30	29.354	12.189 12.362	44.080	1.00 30.99	
MOTA	2023	0	LEU		30	28.542 31.578	13.070	44.051	1.00 25.27	
ATOM	2024	CB	LEU		30	32.157	11.727	44.434	1.00 23.15	
ATOM	2025	œ	LEU		30 30	32.879	11.106	43.274	1.00 22.85	
MOTA	2026		LEU		30	33.110	11.943	45.570	1.00 25.04	
ATOM .	2027	N CD2	LYS		31	29.246	11.172	42.300	1.00 34.65	
MOTA	2028 2029	CA	LYS		31	28.335	10.045	42.513	1.00 36.49	
MOTA MOTA	2030	č	LYS		31	28.910	9.150	43.620	1.00 36.03	
ATOM	2031	ŏ	LYS		31	29.741	8.287	43.370	1.00 36.42	
ATOM	2032	СB	LYS		31	28.121	9.241	41.218	1.00 36.56	
ATOM	2033	ĊĠ	LYS		31	27.475	9.966	40.056	1.00 39.42	
ATOM	2034	CD	LYS		31	26.867	8.902	39.121	1.00 47.68	
ATOM	2035	CE	LYS		31	25.930	9.427	37.990	1.00 51.31	
ATOM	2036	NZ	LYS		31	24.859	8.496	37.602	1.00 51.86	
ATOM	2037	N	TYR	C	32	28.514			1.00 38.89	
ATOM	2038	CA	TYR	С	32	29.122	8.846	46.081	1.00 40.86	
ATOM	2039	С	TYR	C	32	28.594	7.437	46.265	1.00 43.51	
ATOM	2040	0	TYR	C	32	27.425	7.204	45.953	1.00 45.02	
ATOM	2041	CB	TYR		32	28.707	9.747	47.229	1.00 37.67	
ATOM	2042	CG	TYR		32	29.138	9.317	48.610	1.00 41.48	
ATOM	2043	CD1	TYR	С	32	30.459	9.438	48.984	1.00 43.11	
ATOM	2044	CD2	TYR	C	32	28.190	8.877	49.536	1.00 43.18	
MOTA	2045	CEl	TYR	C	32	30.812	9.172	50.302	1.00 44.55 1.00 44.09	
MOTA	2046	CE2	TYR	C	32	28.542	8.584	50.847	1.00 44.03	

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ATOM	2047	CZ	TYR	C	32	29.862	8.758	51.230	1.00 45.88	С
ATOM	2048	OH	TYR	С	32	30.238	8.549	52.557	1.00 49.38	0
ATOM	2049	N	VAL		33	29.391	6.459	46.718	1.00 46.10	N
MOTA	2050		VAL		33	28.866	5.097	46.885	1.00 48.63	Ċ
ATOM	2051	č	VAL		33	28.323	4.935	48.307	1.00 50.48	Č
	2052	ŏ	VAL		33	29.088	5.086	49.265	1.00 49.75	ŏ
MOTA	-		VAL		33	29.900	4.000	46.501	1.00 49.02	č
ATOM	2053	CB	VAL		33	29.390	2.594	46.823	1.00 50.53	č
MOTA	2054							45.014	1.00 47.63	. č
MOTA	2055		VAL		33	30.216	4.072			
MOTA	2056	N	PRO		34	27.006	4.682	48.505	1.00 53.28	N
MOTA	2057	ÇA	PRO		34	26.385	4.695	49.834	1.00 55.66	C
ATOM	2058	C	PRO		34	27.121	3.734	50.767	1.00 58.89	Ç
MOTA	2059	0	PRO	C	34	27.426	2.568	50.448	1.00 59.22	0
MOTA	2060	CB	PRO	C	34	24.936	4.297	49.549	1.00 54.96	C
ATOM	2061	CG	PRO	С	34	24.701	4.825	48.139	1.00 51.80	c
ATOM	2062	CD	PRO	С	34	26.002	4.428	47.456	1.00 51.86	C
MOTA	2063	N	GLY	С	35	27.545	4.399	51.850	1.00 60.51	N
MOTA	2064	CA	GLY		35	28.272	3.744	52.925	1.00 62.88	С
ATOM	2065	Ċ	GLY		35	29.632	3.266	52.457	1.00 63.14	Ċ
	2066	· ŏ	GLY		35	29.852	2.077	52.214		Ō
ATOM			MSE		36	30.521	4.240	52.301	1.00 62.92	Ň
HETATM		N					3.970	51.881	1.00 63.09	Ĉ
HETATM		CA	MSE		36	31.881		52.836	1.00 64.77	č
HETATM		C	MSE		36	32.945	4.485		1.00 65.03	ŏ
HETATM		0	MSE		36	34.148	4.357	52.599		
HETATM	2071	CB	MSE		36	32.115	4.582	50.531	1.00 62.61	•
<b>HETATM</b>	2072	CG	mse		36	31.973	6.068	50.551	1.00 60.55	c
<b>HETATM</b>	2073	SE	mse		36	33.277	6.879	49.401	1.00 61.18	SE
HETATM	2074	CE	MSE	C	36	34.541	7.346	50.777	1.00 55.15	Ç
ATOM	2075	N	ASP	C	37	32.430	5.163	53.863	1.00 66.73	Ŋ
MOTA	2076	CA	ASP	C	37	33.149	5.583	55.061	1.00 67.41	C.
MOTA	2077	C	ASP	C	37	33.215	4.481	56.132	1.00 66.85	С
MOTA	2078	ō	ASP		37	34.130	4.393	56.957	1.00 67.21	0
MOTA	2079	CB	ASP		37	32.478	6.867	55.589	1.00 69.00	С
ATOM	2080	CG	ASP		37	30.982	6.808	55.935	1.00 70.25	С
	2081		ASP		37	30.143	6.538	55.061	1.00 69.81	0
MOTA	2082		ASP		37	30.657	7.058	57.097	1.00 71.69	Ō
ATOM			VAL		38	32.224	3.593	56.068	1.00 65.94	N
MOTA	2083	N	VAL		38	32.091	2.461	56.960	1.00 64.55	č
MOTA	2084	CA				32.395	1.200	56.170	1.00 65.94	. c
MOTA	2085	C	VAL		38		0.521	56.584	1.00 68.33	ŏ
ATOM	2086	0_	VAL		38	33.340		57.631	1.00 63.05	Š
MOTA	2087	CB	VAL		38	30.694	2.475			C
MOTA	2088		VAL		38	29.960	1.135	57.787	1.00 62.73	č
MOTA	2089		VAL		38	30.915	3.097	58.990	1.00 61.39	. N
MOTA.	2090		LEU		39	31.700	0.861	55.059	1.00 64.32	N
MOTA	2091	CA	LEU	C	39	31.997	-0.365	54.328	1.00 63.23	C
ATOM	2092	.C	LEU	Ç	39	33.487	-0.412	53.952	1.00 62.57	· c
MOTA	2093	0	LEU	C	39	34.084	0.647	53.713	1.00 63.24	0
ATOM	2094	CB	LEU	C	39	31.130	-0.449	53.078	1.00 62.74	C
ATOM	2095	N	PRO	С	40	34.161	-1.578	54.006	1.00 61.57	N
ATOM	2096	CA	PRO	С	40	35.608	-1.719	53.761	1.00 59.74	С
ATOM	2097	Č	PRO		40	36.009	-1.462	52.318	1.00 57.52	. C
ATOM	2098	_	PRO	_	40	35.183	-1.629	51.418	1.00 54.10	. 0
ATOM	2099	CB	PRO		40	35.861	-3.170	54.123	1.00 60.55	C
		CG	PRO		40	34.550	-3.863	53.762	1.00 60.74	Ċ
MOTA	2100		PRO		40	33.546	-2.868	54.329	1.00 61.16	č
MOTA	2101	CD				37.282	-1.110	52.111	1.00 56.39	N
MOTA	2102	N	SER		41	37.779	-0.735	50.798	1.00 56.77	Ĉ
MOTA	2103	CA	SER		41			49.602	1.00 56.41	č
MOTA	2104	C	SER		41	37.271	-1.553	48.727	1.00 56.58	.0
MOTA	2105	0_	SER		41	36.627	-0.992		1.00 57.36	C
MOTA	2106	CB	SER	C	41	39.292	-0.643	50.831	1.00 37.36	

MOTA	2107	OG	SER	C	41	39.964	-1.877	50.695	1.00 60.69
	2108	N	HIS	С	42	37.404	-2.882	49,580	1.00 56.11
	2109	CA	HIS	С	42	36.947	-3.739	48.482	1.00 56.80
	2110	C	HIS	C	42	35,473	-3.664	48.079	1.00 56.34
MOTA	2111	0	HIS	C	42	35.062	-4.139	47.007	1.00 55.64
ATOM	2112	CB	HIS	С	42	37.301	-5.217	48.795	1.00 60.78
MOTA	2113	CG	HIS	C	42	36.205	-6.095	49.445	1.00 63.24
ATOM	2114	ND1	HIS	С	42	35.894	-6.211	50.736	1.00 63.50
ATOM	2115	CD2	HIS	C	42	35.244	-6.788	48.711	1.00 63.78
ATOM	2116	CE1	HIS	C	-42	34.762	-6.882	50.802	1.00 64.65
ATOM	2117	NE2	HIS	С	42	34.371	-7.201	49.584	1.00 64.49
ATOM	2118	N	CYS		43	34.669	-3.175	49.027	1.00 56.27
ATOM	2119	CA	CYS		43	33.239	-3.012	48.806	1.00 56.25
MOTA	2120	C	CYS	С	43	32.953	-1.871	47.844	1.00 54.69
MOTA	2121	0	CYS	С	43	. 32.104	-2.006	46.959	1.00 56.17
MOTA	2122	CB	CYS	С	43	32.488	-2.787	50.120	1.00 57.47
ATOM	2123	SG	CYS	C	43	31.647	-4.253	50.786	1.00 60.51
MOTA	2124	N	TRP		44	33.695	-0.766	47.973	1.00 51.41
MOTA	2125	CA	TRP		44	33.338	0.464	47.287	1.00 47.58
MOTA	2126	C	TRP		44	34.349	0.946	46.300	1.00 46.08
ATOM	2127	0	TRP		44	33.969	1.593	45.341	1.00 46.29
ATOM	2128	CB	TRP		44	33.089	1.587	48.271	1.00 47.09
MOTA	2129	CG	TRP			34.199		49.301	1.00 46.63
MOTA	2130		TRP		44	34.221	1.046	50.444	1.00 47.77
ATOM	2131	CD2			44	35.261	2.660	49.225	1.00 45.55
ATOM	2132		TRP	Ċ	44	35.307	1.419	51.078	1.00 47.46
MOTA	2133	CE2	TRP		44	35.948	2.361	50.389	1.00 44.86
MOTA	2134		TRP		44	35.723	3.640	48.403 50.754	1.00 43.79
MOTA	2135	CZ2	TRP		44	37.122 36.886	2.956 4.263	48.782	1.00 43.82
MOTA	2136	CZ3	TRP		44	37.597	3.925	49.920	1.00 42.91
ATOM	2137	CH2	TRP		44	35.615	0.635	46.539	1.00 45.14
MOTA	2138	N	ILE		45	36.735	1.252	45.851	1.00 47.08
MOTA	2139	CA	ILE		45 45	36.657	1.198	44.329	1.00 47.61
ATOM	2140	C	ILE		45	36.955	2.157	43.619	1.00 48.87
MOTA	2141	O CB	ILE		45	38.085	0.681	46.427	1.00 47.91
MOTA	2142 2143	CG1	ILE		45	39.316	1.515	46.123	1.00 46.35
MOTA	2144	CG2	ILE		45	38.420	-0.723	45.905	1.00 50.05
MOTA MOTA	2145		ILE		45	39.180	2.995	46.462	1.00 43.72
ATOM	2146	N	SER		46	36.158	0.077	43.850	1.00 47.61
ATOM	2147	CA	SER		46	36.069	-0.245	42.437	1.00 48.09
MOTA	2148	c c	SER		46	35.166	0.685	41.595	1.00 47.26
MOTA	2149	ō	SER		46	35.598	1.186	40.555	1.00 46.49
ATOM	2150	CB	SER	C	46	35.688	-1.728	42.427	1.00 50.90
MOTA	2151	OG	SER		46	35.093	-2.219	43.664	1.00 54.24
ATOM	2152	N	GLU	С	47	33.932	0.997	42.039	1.00 46.80
ATOM	2153	CA	GLU	C	47	33.095	2.037	41.430	1.00 45.94
MOTA	2154	C	GLU		47	33.599	3.449	41.776	1.00 43.82
ATOM	2155	Ó	GLU		47	33.532	4.348	40.947	1.00 43.16
MOTA	2156	CB	GLU		47	31.602	1.843	41.831	1.00 47.29
MOTA	2157	CG	GLU	_	7.	30.478	2.752	41.246	1.00 52.00
ATOM	2158	CD	GLU		47	29.748	2.394	39.936 39.926	1.00 54.16 1.00 57.21
MOTA	2159	OE1			47	28.894	1.494	39.926	1.00 57.21
MOTA	2160	OE2			47	29.989	3.052	42.967	1.00 43.01
HETATM		N	MSE		48	34.170	3.670 4.979	42.967	1.00 40.77
HETATM		CA	MSE		48	34.601 35.795	5.538	42.724	1.00 37.10
HETATM	2163	Č.	MSE		48	35.795 35.799	6.739	42.563	1.00 39.16
HETATM	2164	O.	MSE		48 48	34.926	4.968	44.927	1.00 43.83
HETATM		CB	MSE MSE		48	34.667	6.334	45.551	1.00 49.60
HETATM	<b>2100</b>	CG	rab	_	. 40	34.007	1		

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HETATM	2167	SE	MSE		48	32.809	6.850	45.340	1.00 57.46	SE
HETATM		CE	MSE	C	48	32.917	8.464	46.266	1.00 52.90	C
MOTA	2169	N	VAL	C	49	36.793	4.773	42.266	1.00 34.29	N
MOTA	2170	CA	VAL	C	49	37.855	5.271	41.388	1.00 30.22	C
MOTA	2171	C	VAL	C	49	37.372	5.680	39.997	1.00 31.03	С
MOTA	2172	0	VAL	С	49	37.936	6.572	39.365	1.00 30.17	0
ATOM	2173	CB	VAL	С	49	39.021	4.288	41.268	1.00 27.65	С
ATOM	2174		VAL		49	39.719	4.131	42.581	1.00 27.80	С
ATOM	2175		VAL		49	38.591	2.924	40.828	1.00 27.38	. C
MOTA	2176	И	VAL		50	36.319	5.056	39.478	1.00 29.68	N
MOTA	2177	CA	VAL		50	35.727	5.548	38.255	1.00 29.53	C
	2178	c	VAL		50	34.932	6.806	38.559	1.00 28.57	С
ATOM		ŏ	VAL		50	35.069	7.755	37.800	1.00 30.41	0
ATOM	2179	CB	VAL		50	34.904	4.446	37.554	1.00 30.06	Ċ
MOTA	2180		VAL		50	34.026	4.900	36.371	1.00 28.50	Ċ
ATOM	2181			c	50	35.916	3.457	37.070	1.00 29.52	č
ATOM	2182					34.147	6.917	39.639	1.00 28.05	N
MOTA	2183	N	GLN		51			39.945	1.00 27.55	· c
MOTA	2184	CA	GLN		51	33.421	8.148	40.379	1.00 26.77	č
MOTA	2185	Ç	GLN		51	34.267	9.336	40.061	1.00 27.78	ŏ
MOTA	2186	0_	GLN		51	33.957	10.480			Č
MOTA	2187	CB	GLN		51	32.276	7.962	40.944	1.00 27.95	c
MOTA	2188	CG	GLN		51	31.142	7.029	40.503	1.00 31.66	
MOTA	2189	CD	GLN		51	30.518	7.274	39.121	1.00 35.14	C
MOTA	2190	OE1	GLN		51	30.531	8.353	38.510	1.00 34.94	ő
MOTA	2191	NE2	GLN	С	51	29.945	6.214	38.566	1.00 36.11	N
MOTA	2192	N	LEU		52	35.349	9.130	41.113	1.00 24.84	N
MOTA	2193	CA	LEU	C	52	36.290	10.188	41.316	1.00 24.73	Ç
MOTA	2194	C	LEU	С	52	36.914	10.560	40.004	1.00 25.82	Ç
MOTA	2195		LEU	С	52	37.061	11.752	39.750	1.00 26.91	0
MOTA	2196		LEU		52	37.349	9.754	42.251	1.00 25.92	C
ATOM	2197		LEU	С	52	36.831	9.701	43.653	1.00 27.26	cc
ATOM	2198		LEU		52	37.880	9.090	44.510	1.00 27.86	С
ATOM	2199	CD2	LEU	Ċ	52	36.473	11.078	44.141	1.00 27.93	Ċ
ATOM	2200		SER		53	37.211	9.566	39.148	1.00 27.18	N
MOTA	2201		SER		53	37.788	9.790	37.838	1.00 24.69	С
ATOM	2202	_	SER		53	36.859	10.558	36.918	1.00 26.00	. C
ATOM	2203		SER		53	37.336	11.388	36.166	1.00 26.97	0
ATOM	2204		SER		53	38.172	8.499	37.198	1.00 25.64	С
ATOM	2205		SER		53	38.902	8.772	36.019	1.00 24.45	0
ATOM	2206		ASP		54	35.544	10.421	36.932	1.00 27.50	N
	2207	•	ASP		54	34.743	11.292	36.113	1.00 29.13	c
MOTA			ASP		54		12.679	36.663	1.00 27.20	Ċ
ATOM	2208	_	ASP		54	34.826	13.616	35.906	1.00 30.75	0
MOTA	2209		ASP		54	33.314	10.874	36.099	1.00 35.74	С
ATOM	2210		ASP		54	33.056	9.521	35.502	1.00 43.27	C
ATOM	2211		ASP		54	33.871	9.016	34.694	1.00 44.80	Ó
MOTA	2212		ASP		54	31.996	8.988	35.876	1.00 47.24	0
ATOM	2213					34.554	12.829	37.966	1.00 26.41	N
MOTA	2214		SER		55	34.470	14.119	38.610	1.00 23.34	c
ATOM	2215		SER		55		14.964	38.382	1.00 19.99	č
MOTA	2216	_	SER		55	35.676		38.175	1.00 20.42	ŏ
MOTA	2217		SER		55	35.544	16.157		1.00 24.40	č
MOTA	2218		SER		55	34.306	13.948	40.105	1.00 24.29	· ŏ
MOTA	2219		SER		55	33.079	13.321	40.431		N
ATOM	2220	N	LEU	C	56	36.837	14.338	38.432		
ATOM	2221	. CA	LEU		<sub>.</sub> 56	38.082	15.062	38.245		C
ATOM	2222		LEU		56	38.333	15.488	36.797		. с
ATOM	2223		LEU	C	56	38.922	16.543	36.512		0
ATOM	2224		LEU	C	56	39.301	14.271	38.793	1.00 21.06	C
ATOM	2225	CG	LEU	C	56	39.614	14.342	40.291		C
ATOM	2226		LEU	C	56	40.647	13.313	40.678	1.00 18.16	C

MOTA	2227		LEU		56	40.132	15.717	40.651	1.00 16.		
MOTA	2228	N	THR		57	37.873	14.624	35.881	1.00 25.		
MOTA	2229	CA	THR		57	37.991	14.906	34.462	1.00 28.		
MOTA	2230	C	THR		57	37.020	16.004	34.104	1.00 28.		
MOTA	2231	0	THR		57	37.390	16.908	33.364	1.00 31.		
ATOM	2232	CB	THR		57	37.813	13.669		1.00 30.		
MOTA	2233		THR	-	57	38.904	12.849	33.972	1.00 32.		
MOTA	2234		THR		57	38.044	13.945	32.109 34.675	1.00 33.		
MOTA	2235	N	ASP		58	35.831 34.940	16.009 17.120		1.00 26. 1.00 29.		
MOTA	_	CA	ASP ASP		58 58	35.387	18.422	34.486 35.173	1.00 29.		
MOTA	2237		ASP		58	35.241	19.515	34.614	1.00 29.		
MOTA	2238 2239	O CB	ASP		58	33.489	16.679	34.870	1.00 36.		
MOTA MOTA	2240	CG	ASP		58	32.849		34.032	1.00 40.		
ATOM	2241		ASP		58	33.503	14.924	33.151	1.00 41.		
ATOM	2242		ASP		58	31.673	15.229	34.294	1.00 42.		
ATOM	2243	N	LEU		59	35.964		36.383	1.00 26.		
ATOM	2244	CA	LEU		59	36.486	19.508	37.074	1.00 21.	52	
MOTA	2245	C	LEU		59	37.611	20.115	36.285	1.00 19.	04	
MOTA	2246	0	LEU		59 -	37.748	21.317	36.312	1.00 20.	31	
MOTA	2247	CB	LEU	C	59	37.028	19.118	38.444	1.00 19.	27	
MOTA	2248	CG	LEU	С	5,9	37.519	20.223	39.377	1.00 18.	.52	
MOTA	2249		LEU		59	36.411	21.181	39.805	1.00 14.		
MOTA	2250	CD2	LEU		59	38.147	19.538	40.574	1.00 18.		
ATOM	2251	N	LEU		60	38.399	19.348	35.553	1.00 19.		
MOTA	2252	CA	LEU		60	39.549	19.854	34.840	1.00 20.		
MOTA	2253	Ç	LEU		60	39.173	20.833	33.766	1.00 22		
MOTA	2254	0_	LEU		60	39.912	21.768	33.474	1.00 24.		
ATOM	2255	CB	LEU		60	40.290 41.582	18.718 19.115	34.206 33.520	1.00 19		
ATOM	2256	CG	LEU		60 60	42.638	19.404	34.561	1.00 17		
MOTA	2257		LEU		60	42.018	18.002	32.555	1.00 20		
MOTA MOTA	2258 2259	N .	ASP		61	37.984	20.629	33.214	1.00 25		
MOTA	2260	CA	ASP		61	37.471	21.478	32.157	1.00 27		
MOTA	2261	c	ASP		61	36.950	22.809	32.666	1.00 24		
MOTA	2262	ō	ASP		61	36.768	23.738	31.883	1.00 26		
ATOM	2263	СВ	ASP		61	36.365	20.729	31.389	1.00 35	. 92	
ATOM	2264	CG	ASP		61	36.753	19.367	30.759	1.00 45	. 09	•
ATOM	2265	OD1	ASP	C	61	37.808	19.241	30.086	1.00 48	.21	
ATOM	2266	OD2	ASP		61	35.970	18.414	30.956	1.00 49		
ATOM	2267	N	LYS	С	62	36.733	22.956	33.979	1.00 22		
ATOM	2268	CA	LYS		62	36.379	24.234	34.559	1.00 18		
MOTA	2269	C	LYS		62	37.603	25.082	34.727	1.00 17		
MOTA	2270	0_	LYS		62	37.491	26.205	35.176	1.00 19		
ATOM	2271	CB	LYS		62	35.718	24.064	35.888	1.00 17		
ATOM	2272	CG	LYS		62	34.590	23.048 23.302	35.893 34.802	1.00 23		
MOTA	2273	CD	LYS		62	33.552 32.302	22.398	34.907	1.00 23		
MOTA	2274	CE	LYS		62 62	32.621	20.990	35.112	1.00 33		
MOTA	2275	NZ N	PHE		63	38.792	24.629	34.385	1.00 16		
MOTA	2276		PHE		63	39.980	-		1.00 18		
MOTA	2277 2278	CA C	PHE		63	40.714	25.584	33.363	1.00 20		
MOTA MOTA	2279	õ	PHE		63	40.491	24.894	32.375	1.00 22		
ATOM	2280	CB	PHE		63	40.890	24.728	35.712	1.00 16		
ATOM	2281	CG	PHE		63	40.280	24:790	37.109	1.00 15		•
ATOM	2282		PHE		63	40.413	25.931	37.893	1.00 15		_
ATOM	2283	CD2	PHE	C	63 .	39.475	23.764	37.555	1.00 16		-
ATOM	2284	CE1	PHE	С	63	39.717	26.070	39.078	1.00 11		
MOTA	2285		PHE		63	38.742	23.932	38.732	1.00 17		
MOTA		CZ	PHE		63	38.864	25.086	39.487	1.00 11	. 68	•

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MOTA	2287	N	SER	С	64	41.606	26.540	33.393	1.00	22.26		N
ATOM	2288	CA	SER		64	42.458	26.748	32.268	1.00	25.03		C
MOTA	2289	Ċ	SER		64	43.928	26.724	32.651	1.00			Ċ
ATOM	2290	ŏ	SER		64	44.339	27.274	33.668	1.00			Ō
MOTA	2291	CB	SER		64	41.951	28.036	31.682	1.00			Č
MOTA	2292	OG	SER		64	42.936	28.782	30.987	1.00			ŏ
	2293	N	ASN		65	44.750	26.056	31.838	1.00			N
ATOM	2294	ĊA	ASN		65	46.183	25.967	32.048	1.00			c
ATOM	2295	c	ASN		65	46.912	27.280	31.894	1.00			č
MOTA		õ	ASN		65	46.482	28.228	31.252	1.00			õ
MOTA	2296	CB	ASN		65	46.770	24.950		1.00			č
MOTA	2297	CG	ASN		65	48.076	24.325	31.558	1.00			č
MOTA	2298		ASN		65	48.626	24.591	32.636	1.00			õ
ATOM .	2299		ASN		65	48.554	23.457	30.676	1.00			N
MOTA	2300		ILE			48.053	27.328	32.558	1.00			N
ATOM	2301	N			66		28.549	32.743		38.02		ĉ
MOTA	2302	CA	ILE		66	48.822		32.743		39.89		č
MOTA	2303	Č	ILE		66	50.279	28.139	33.077		_		ŏ
MOTA	2304	0	ILE		66	50.733	27.095		1.00			č
MOTA	2305	CB	ILE		66	48.560	29.130	34.181		37.96		č
MOTA	2306		ILE		66	47.097	29.513	34.381				c
MOTA			ILE		66	49.443	30.334	34.443		37.53		C
MOTA	2308		ILE		66	46.677	29.759	35.833		39.98		
MOTA	2309	N	SER		67	50,960	29.038	31.828		41.75		N
MOTA	2310	CA	SER		67	52.349	28.856	31.397		44.33		C
MOTA	2311	C	SER		67	53.320	28.647	32.536		44.00		C
MOTA	2312	0_	SER			54.160	27.762	32.527		44.13		0
MOTA	2313	CB	SER		67	52.833	30.063	30.588		45.04		C
ATOM	2314	OG	SER		67	52.984	31.250	31.372		50.12		0
ATOM	2315	N.	GLU		68	53.150	29.510	33.517		46.29		N
ATOM	2316	CA	GLU		68	53.969	29.520	34.702		49.75		C
ATOM	2317	С	GLU		68	53.215	29.731	36.043		48.90		C
ATOM	2318	0	GLU		68	52.374	30.624	36.267		49.09		0
MOTA	2319	CB	GLU		68	55.066	30.581 ·			53.81		C
ATOM	2320	CG	GLU		68	56.220	30.174	33.547		59.46		C
MOTA	2321	CD	GLU		68	57.364	29.378	34.192		63.46		Č
ATOM	2322	OE1	GLU		68	57.165	28.736	35.239		65.40		0
MOTA	2323	OE2	GLU		68	58.477	29.413	33.642		65 78		0
MOTA	2324	N	GLY		69	53.643	28.896	36.995		46.18		N
MOTA	2325	CA	GLY		69	52.938	28.734	38.244		41.09		C
MOTA	2326	C	GLY	C	69	52.252	27.398	38.142		37.69		Ċ
ATOM	2327	0	GLY	C	69	51.845	26.975	37.057		38.22	•	0
ATOM	2328	N	LEU	C	70	52.181	26.712	39.279		34.58		N
ATOM	2329	CA	LEU	C	70	51.394	25.484	39.399		30.54		C
MOTA	2330	C	LEU		70.	49.895	25.821	39.513		28.30		C
ATOM	2331	0	LEU	C	70	49.411	26.367	40.513		29.19		0
ATOM	2332	СВ	LEU	C	70	51.895	24.714	40.615		28.69		C
ATOM	2333	CG	LEU		70	51.380	23.328	40.950		27.08		CCC
ATOM	2334	CD1	LEU	С	70	51.749	22.340	39.816	_	26.63		C
ATOM	2335		LEU		70	51.914	22.939	42.329	1.00	22.67		C
MOTA	2336	N	SER		71	49.173	25.536	38.430		23.37		N
MOTA	2337	CA	SER	С	71	47.795	25.909	38.342		18.79		С
ATOM	2338	C	SER	C	71	46.961	24.732	38.737		14.59		C
MOTA	2339	Ö	SER		71	47.420	23.616	38.830		13.92		0
ATOM	2340	СВ	SER		71	47.499	26.362	36.929	1.00	19.04		C
ATOM	2341	ŌĞ	SER		71	47.794	25.282	36.073	1.00	21.34		0
ATOM	2342	N	ASN		72	45.691	25.004	38.938	1.00	15.21		N
ATOM	2343	CA	ASN		72	44.712	24.002	39.262		16.38		C
ATOM	2344	c	ASN		72	44.530	23.023	38.120	1.00	17.89		С
ATOM	2345	ō	ASN		72	44.330	21.836	38.358		19.68		0
ATOM	2346	ČВ	ASN		72	43.395	24.668	39.627	1.00	14.20		C

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MOTA	2347	CG	asn	C	72	43.443	25.398	40.958	1.00	16.98		C
MOTA	2348		asn		72	44.439	25.399	41.698	1.00	15.50		0
MOTA	2349	·ND2	asn	C	72	42.348	26.051	41.315	1.00	16.58		N
MOTA	2350	N	TYR	С	73	44.626	23.493	36.878	1.00			N
MOTA	2351	CA	TYR		73	44.546	22.649	35.715	1.00	-		C
MOTA	2352	C	TYR		73	45.628	21.603	35.846		16.88		C
MOTA	2353	0	TYR		73	45.388	20.407	35.803		18.90		0
MOTA	2354	CB	TYR		73	44.797	23.540	34.503		14.79		C
MOTA	2355	CG	TYR		73 .	44.618	22.779	33.215		18.01		C
MOTA	2356		TYR		73	45.649	22.000	32.745		18.75		C
ATOM	2357		TYR		73	43.428	22.809	32.544		17.80	,	000
ATOM	2358		TYR		73	45.507	21.189	31.632		23.12		<u>_</u>
ATOM	2359		TYR		73	43.282	22.000	31.424		23.77		č
MOTA	2360	CZ	TYR		73	44.300	21.160 20.242	30.987 29.959		22.85 27.47		ŏ
MOTA	2361	OH	TYR		73	44.105 46.846	20.242	36.054		19.27		N
MOTA	2362	Й	SER		74 ·	48.037	21.234	36.196		18.80		Ĉ
MOTA	2363		SER		74	47.939	20.205	37.316		18.49		č
MOTA	2364	C	SER		74	48.192	19.026	37.062		18.14		ō.
ATOM	2365 2366	.O CB	SER		74	49.160	22.197	36.410		19.97		č
MOTA NTOM	2367	OG	SER		74	50.345	21.552	36.749		27.05		ŏ
MOTA MOTA	2368	N	ILE		75	47.536	20.603	38.532		17.15		N
ATOM	2369	CA	ILE		75	47.360		39.640		15.78		C
ATOM	2370	Č.	ILE		75	46.266	18.688	39.303		15.56		C
ATOM	2371	ŏ	ILE		75	46.392	17.487	39.540	1.00	15.90		0
MOTA	2372	CB	ILE		75	47.004	20.373	40.994	1.00	14.47		С
MOTA	2373	CG1	ILE		75	48.069	21.396	41.311	1.00	15.08		C
MOTA	2374		ILE		75	46.847	19.406	42.151	1.00	9.44		C
MOTA	2375	CD1	ILE	C	75	47.662	22.494	42.334		16.06		·C
MOTA	2376	N	ILE		76	45.174	19.165	38.739		15.87		N
MOTA	2377	CA	ILE	C	76	44.072	18.254	38.540		16.45		C
MOTA	2378	С	ILE		76	44.423	17.278	37.416		18.42		C
MOTA	2379	0	ILE		76	44.047	16.107	37.479		21.96		0
MOTA	2380	CB	ILE		76	42.777	19.029	38.276		16.99		C
MOTA	2381		ILE		76	42.407	20.014	39.366		18.36	•	C
MOTA	2382		ILE		76	41.661	18.026	38.294		18.72		č
MOTA	2383		ILE		76	41.376	21.090	38.981 36.395		13.71 19.28		N
MOTA	2384	N	ASP		77	45.169 45.673	17.686 16.806	35.340		20.35		Ĉ
ATOM	2385	CA	ASP		77	46.477	15.616	35.867		18.75		č
ATOM	2386	C	ASP ASP		77 77	46.259	14.474	35.483		20.55		Ö
ATOM	2387	O CB	ASP		77	46.528	17.679	34.388		23.72		Č
mota Mota	2388 2389	ĆĞ	ASP		77	46.796		32.984		27.17		č
MOTA	2390		ASP		77	46.195	16.148	32.611		29.11		Ō
ATOM	2391		ASP		77	47.586	17.723	32.239		31.91		0
ATOM	2392	N	LYS		78	47.401	15.826	36.791	1.00	18.00	•	N
MOTA	2393	CA	LYS		78	48.064	14.729	37.494	1.00	19.18		C.
ATOM	2394	C	LYS		78	47.114	13.802	38.229	1.00	16.84		C
ATOM	2395	Ō	LYS		78	47.200	12.586	38.170	1.00	18.34		0
MOTA	2396	CB	LYS	С	78	49.017	15.288	38.533		21.80		C
ATOM	2397	CG	LYS	C	78	• • • • -	15.453					C
ATOM	2398	CD	LYS	C	78	50.799	16.212	36.977		33.33		C
MOTA	2399	CE	LYS	C	78	51.977	17.190	37.154		36.36		C
ATOM	2400	NZ	LYS		78	51.538	18.516	37.592		40.57		N
MOTA	2401	N	LEU		79	46.160	14:358	38.937		17.71		N
MOTA	2402	CA	LEU		79	45.282	13.528	39.739		19.39		C
MOTA	2403	C	LEU			44.465	12.641	38.836		19.34		C
MOTA	2404	0	LEU		79	44.358	11.479	39.161		22.92		0
MOTA	2405	CB	LEU		79	44.412		40.708		15.20		C
MOTA	2406	CG	LEU	C	79	45.179	15.238	41.695	1.00	14.54		C

MOTA	2407	CD1	LEU	C	79	44.276	15.934	42.683	1.00	15.95		С
MOTA	2408	CD2	LEU	C	79	46.119		42.497	1.00	14.50		С
MOTA	2409	N	VAL	C	80	43.974		37.694		20.79		N
MOTA	2410	CA	VAL	C	80	43.210		36.719		19.75		С
ATOM	2411	C	VAL		80	44.068		36.229		20.92		C
MOTA	2412	0	VAL		80	43.583		36.160		19.45		0
ATOM	2413		VAL		80	42.850		35.502		20.41		Ċ
ATOM	2414		VAL		80	42.103		34.477		22.80	. •	C
ATOM	2415		VAL		80	41.915		35.902		19.35	٠	C
ATOM	2416	N	ASN		81	45.344		35.936		24.00		N
ATOM	2417		ASN		81	46.215		35.447		24.32		0
atom	2418		ASN		81	46.460		36.474 36.168		25.83 27.41		<u> </u>
ATOM	2419	0	asn asn		81 .	46.405		35.027		25.29		2
MOTA	2420		asn		81 81	47.389		33.658		27.98		Č
MOTA	2421	CG	asn		81	47.347		32.667		30.37		5
MOTA	2422		ASN		81	47.387		33.477		27.47		N
ATOM	2423	N	ILE		82	46.690		37.714		27.31		· N
ATOM	2424 2425	CA	ILE		82	46.839		38.814		27.48		Ĉ
ATOM ATOM	2426	Č	ILE		82	45.586		39.042		29.22		č
MOTA	2427	ŏ	ILE		82	45.705		39.266		32.26		õ
ATOM	2428	СВ	ILE		82	47.228		40.022		26.77		Č
MOTA	2429		ILE		82	48.662		39.852		24.85.		C
ATOM	2430		ILE		82	47.046		41.344	1.00	26.49		C
MOTA	2431		ILE		82	49.159		40.833	1.00	24.34		C
ATOM	2432	N	VAL		83	44.371	8.547	38.968	1.00	30.80		N
ATOM	2433	CA	VAL	С	83	43.099	7.834	39.209	1.00	29.90		С
ATOM	2434	С	VAL	C ·	83	42.793	6.906	38.019	1.00	30.67		С
MOTA	2435	Ο.	VAL	С	83	42.229	5.824	38.195		29.90		0
MOTA	2436	CB	VAL	C	83	41.888		39.455		27.23		C
MOTA	2437		VAL		83	40.651		39.973		28.89		C
MOTA	2438	CG2	VAL		83	42.154		40.558		28.33		.C
MOTA	2439	N	ASP		84	43.174		36.797				
MOTA	2440	CA	ASP		84	42.971		35.629		31.24		C
MOTA	2441	C	ASP		84	43.761		35.686		32.41		C
MOTA	2442	0_	ASP		84	43.233		35.291		32.47 31.90		č
MOTA	2443	CB	ASP		84	43.296		34.350 33.899		36.65		c
MOTA	2444	CG	asp asp		84 84	41.105		34.417		37.73		ŏ
ATOM	2445		ASP		84	42.537		33.000		40.83		ŏ
MOTA	2446 2447	N	ASP		85	44.988		36.202		31.95		N
MOTA MOTA	2448	CA	ASP		85	45.770		36.589		34.69		C
ATOM	2449	Č	ASP		85	45.189		37.564		34.70		Ċ
ATOM	2450	ŏ	ASP		85	45.464		37.471		34.86		0
ATOM	2451	CB	ASP		85	47.030		37.248	1.00	37.43		CCO
ATOM	2452	ČĞ	ASP		85	48.103		36.290	1.00	41.26		С
ATOM	2453		ASP			47.860	4.978	35.077	1.00	45.93		0
MOTA	2454		ASP		85	49.169	5.423	36.776	1.00	43.39		0
ATOM	2455	N	LEU		86	44.445		38.552	1.00	34.35		N
ATOM	2456	CA	LEU	С	86	43.783		39.498		34.80		C
MOTA	2457	C	LEU	C	86	42.525				34.98		C
MOTA	2458	0	LEU		86	42.117		39.288		36.02		0
MOTA	2459	CB	LEU		86	43.443		40.735		35.24		c
MOTA	2460	CG	LEU		86	44.591		41.331		37.43		C
MOTA	2461	CD1	LEU	C	86	44.052		42.407		38.91	• •	C
MOTA	2462		LEU		86	45.728		41.825		37.75		C
MOTA	2463	N	VAL		87	41.886		37.939		37.37		N C
MOTA	2464	CA	VAL		87	40.748		37.175		38.56		
MOTA	2465	C	VAL		87	41.23		36.320		43.44		C
MOTA	2466	0	VAL	C	87	40.62	0.154	36.337	1.00	77.44		U

ATOM	2467	CB	VAL C	87	40.167	3.478	36.302	1.00 36.61
ATOM	2468		VAL C	87	39.054	2.945	35.450	1.00 37.46
ATOM	2469	CG2		87	39.592	4.584	37.139	1.00 35.39
ATOM	2470	N	GLU C	88	42.356	1.329	35.613	1.00 45.33
ATOM	2471	CA	GLU C	88	42.933	0.237	34.842	1.00 50.04
	2472	Ċ.	GLU C	88	43.480	-0.856	35.761	1.00 52.28
ATOM						-2.015	35.374	1.00 52.25
MOTA	2473	0	GLU C	88	43.503			
MOTA	2474	CB	GLU C	88	44.048	0.728	33.869	1.00 52.22
MOTA	2475	CG	GLU C	88 .	43.776	1.785	32.749	1.00 56.99
MOTA	2476	CD	GLU C	88	42.784	1.451	31.610	1.00 62.14
MOTA	2477	OE1	GLU C	88	42.853	0.348	31.046	1.00 66.19
MOTA	2478	OE2	GLU C	88	41.926	2.286	31.266	1.00 62.89
MOTA	2479	N	CYS C	89	43.930	-0.535	36.982	1.00 55.77
MOTA	2480	CA	CYS C	89	44.471	~1.508	37.936	1.00 58.72
ATOM .	2481	C	CYS C	89	43.372	-2.333	38.578	1.00 60.22
MOTA	2482	0	CYS C	89	43.624	-3.464	39.000	1.00 61.13
MOTA	2483	CB	CYS C	89	45.285	-0.819	39.048	1.00 59.69
ATOM	2484	SG	CYS C	89	46.103	-1.924	40.239	1.00 65.48
MOTA	2485	N	VAL C	90	42.159	-1.749	38.657 .	1.00 61.71
MOTA	2486	CA	VAL C	90	40.963	-2.396	39.210	1.00 62.70
ATOM	2487	Ċ	VAL C	90	40.453	-3.516	38.278	1.00 64.64
ATOM	2488	õ	VAL C	90	40.010	-4.562	38.779	1.00 65.07
MOTA	2489	CB	VAL C	90		-1.260	39.622	1.00 60.49
MOTA	2490	CG1	VAL C	90	38.477	-1.428	39.231	1.00 58.30
	2491	CG2	VAL C		40.023	-1.060	41.125	1.00 58.40
MOTA			LYS C	91	40.591	-3.348	36.938	1.00 66.41
MOTA	2492	N CA	LYS C	91	40.281	-4.402	35.971	1.00 68.79
MOTA	2493		LYS C	91	41.219	-5.638	36.092	1.00 70.22
MOTA	2494	Ç			40.715	-6.728	36.404	1.00 72.46
MOTA	2495	0	LYS C	91			34.530	1.00 68.55
MOTA	2496	CB	LYS C	91	40.233	-3.836	33.535	1.00 71.09
MOTA	2497	CG	LYS C		39.560	-4.821		
MOTA	2498	CD	LYS C	91	39.779	-4.534	32.028	1.00 71.78
MOTA	2499	CE	LYS C	91	39.128	-3.245	31.514	1.00 70.74
MOTA	2500	NZ	LYS C	91	39.730	-2.834	30.259	1.00 70.64
ATOM	2501	N	SER C		25.399	2.470	38.962	1.00 56.13
MOTA	2502	CA	SER C		25.444	3.921	38.739	1.00 55.65
MOTA	2503	С	SER C		24.850	4.688	39.939	1.00 52.95
ATOM	2504	0	SER C		23.647	4.968	39.947	1.00 53.89
MOTA	2505	CB	SER C		24.797	4.326	37.337	1.00 57.16
MOTA	2506	OG	SER C		23.517	3.792	36.940	1.00 56.67
MOTA	2507	N	PRO C	105	25.618	5.024	41.000	1.00 49.29
ATOM	2508	CA	PRO C	105	25.119	5.676	42.224	1.00 46.42
ATOM	2509	С	PRO C	105	24.631	7.146	42.171	1.00 44.43
ATOM	2510	0	PRO C	105	24.768	7.791	41.134	1.00 42.75
ATOM	2511	CB	PRO C	105	26.265	5.445	43.181	1.00 45.66
ATOM	2512	CG	PRO C	105	27.467	5.523	42.277	1.00 46.43
ATOM	2513	CD	PRO C		27.036	4.706	41.089	1.00 47.56
MOTA	2514	N	GLU C		24.023	7.707	43.240	1.00 44.38
MOTA	2515	CA	GLU C		23.436	9.055	43.238	1.00 43.85
ATOM	2516	C	GLU C		24.414	10.202	43.420	1.00 42.61
		_	AT 11 A			10.113.		
MOTA MOTA	2517 2518	CB	GLU C		22.321	9.281	44.289	1.00 45.50
ATOM	2519	CG	GLU C		20.936	8.664	44.035	1.00 46.22
		CD	GLU C		20.404	8.761	42.607	1.00 45.82
ATOM	2520		GLU C		20.257	9.861	42.067	1.00 41.34
MOTA	2521				20.152	7.699	42.032	1.00 48.83
MOTA	2522	OE2	GLU C	102		11.291	42.632	1.00 41.36
MOTA	2523	N	PRO C	107	24.254 25.096	12.486	42.637	1.00 39.50
MOTA	2524	ÇA	PRO C					1.00 39.30
ATOM	2525	C	PRO C		24.873	13.318	43.850	
ATOM	2526	0	PRO C	10.4	23.767	13.685	44.226	1.00 39.34

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MOTA	2527		PRO			24.680	13.288	41.434	1.00 40.28	
MOTA	2528	CG	PRO			24.151	12.214	40.519	1.00 42.95	
MOTA	2529	CD	PRO			23.353	11.358	41.490	1.00 41.93	
ATOM	2530	N	ARG			26.012	13.570	44.436	1.00 35.97	
ATOM	2531	CA	ARG			26.055	14.439	45.561	1.00 35.65	
	2532	C	ARG	C	108	26.953	15.609	45.219	1.00 34.88	
MOTA	2533	0	ARG			27.707	15.585	44.244	1.00 35.60	
MOTA	2534	CB	ARG	C	108	26.617	13.701	46.756	1.00 39.40	
MOTA	2535	CG	ARG	C	108	25.710	12.742	47.530	1.00 44.75	٠
MOTA	2536	CD	ARG	С	108	25.959	12.906	49.053	1.00 48.86	
MOTA	2537 ·	NE	ARG			25.401	11.801	49.824	1.00 52.47	
MOTA	2538	CZ	ARG	C	108	25.920	11.400	50.988	1.00 54.55	
MOTA	2539	NH1	ARG	C	108	26.919	12.095	51.582	1.00 55.13	
MOTA	2540		ARG			25.427	10.267	51.532	1.00 54.84	
MOTA	2541	N	LEU	C	109	26.850		46.046	1.00 32.80	
MOTA	2542	CA	LEU			27.686	17.851	45.949	1.00 31.31	
MOTA	2543	C	LEU	C	109	28.544	17.984	47.198	1.00 27.53	
MOTA	2544		LEU			28.058	17.849	48.335	1.00 29.28	
MOTA	2545	CB	LEU	C	109	26.876	19.173	45.813	1.00 30.72	
MOTA	2546	CG	LEU	C	109	25.837	19.411		1.00 29.60	
ATOM	2547		LEU			25.143	20.697	45.150	1.00 31.86	
ATOM	2548		LEU			26.433	19.432	43.347	1.00 30.24	
MOTA	2549		PHE			29.841		46.995	1.00 24.61	
MOTA	2550	CA	PHE			30.784	18.289	48.116	1.00 20.67	
MOTA	2551	С	PHE		_	31.579	19.548	48.013	1.00 17.66	
MOTA	2552	0	PHE			31.746	20.049	46.924	1.00 19.14	
MOTA	2553	CB			110	31.721	17.098		1.00 23.08	
MOTA	2554	CG	PHE			31.049	15.733	48.163	1.00 22.91	
MOTA	2555		PHE.			30.793	15.226	49.426	1.00 20.89	
MOTA	2556		PHE			30.737	15.008	47.024	1.00 23.49 1.00 21.28	
ATOM	2557		PHE			30.269	13.969 13.751	49.565 47.178	1.00 24.67	
MOTA	2558		PHE			30.186 29.974	13.751	48.444	1.00 24.36	
MOTA	2559	CZ			110	32.071	20.116	49.084	1.00 17.78	
MOTA	2560	N			111	32.961	21.249	48.978	1.00 18.25	
ATOM	2561	CA			111 111	34.337	20.763	48.509	1.00 21.30	
ATOM	2562	C			111	34.518	19.547	48.617	1.00 26.22	
ATOM	2563	O CB			111	33.057	21.895	50.359	1.00 19.78	
MOTA	2564 2565					33.780	20.989	51.199	1.00 19.58	
ATOM	2566		THR			31.663	22.215	50.913	1.00 18.93	
ATOM	2567	N			112	35.360	21.512	48.024	1.00 19.29	
ATOM	2568	CA			112	36.675	20.962	47.729	1.00 18.39	
ATOM	2569	Ċ,			112	37.225	20.086	48.855	1.00.21.30	
MOTA	2570	· 0			112	37.605	18.953	48.611	1.00 22.05	
MOTA	2571	CB			112	37.455	22.226	47.520	1.00 18.00	
ATOM	2572	CG			112	36.455	23.100	46.801	1.00 16.59	
ATOM		CD			112	35.265	22.919	47.660	1.00 14.34	
ATOM	2574	N ·	GLU	C	113	37.221	20.521	50.119	1.00 22.83	
	2575	CA	GLU	C	113	37.717	19.735.	51.235	1.00 24.32	
ATOM .	2576	Ċ			113	37.046	18.394	51.408	1.00 23.52	
ATOM	2577.	0			113	-			1.00 23.92	
MOTA	2578	CB.	GLU	C	113	37.496	20.463	52.524	1.00 27.24	
ATOM	2579	CG	GLU	C	113	38.700	20.955	53.281	1.00 35.37	
ATOM	2580	CD.	GLU	C	113	38.282	21.200	54.724	1.00 39.80	
ATOM .	2581:	ŎĚ1	GLU	С	113	37.915	20.230	55.387	1.00 41.11	
MOTA	2582	QE2	GLU	C	113	38.296	22.339	55.182	1.00 41.53	٠
ATOM	2583	N			114	35.712	18.350	51.386	1.00 23.35	
MOTA	2584	. CA			114	34.968	17.107	51.535	1.00 23.29	
MOTA	2585	·C			114	35.168	16.200	50.344	1.00 22.72	
ATOM	2586	0	GLU	C	114	35.160	14.981	50.518	1.00 23.79	

MOTA	2587	CB	GLU	С	114	33.470	17.	344	51.622	1.00	26.84		C
ATOM	2588	CG			114	32.974		114	52.849	1.00	31.67		Ċ
MOTA	2589	CD			114	31.578		736	52.701	1.00	37.47		č
	2590				114	30.884		533	51.681	1.00	35 31		ŏ
MOTA			GLU			31.202		468	53.633	1 00	40 13		ă
ATOM	2591	-							49 143	1.00	20.13		
MOTA	2592	N			115	35.320		775	49.143	1.00	20.03		N
MOTA	2593	CA			115	35.60		979	47.971	1.00	18.15		C
MOTA	2594	C			115	36.99		397	48.157	1.00	17.33		C
MOTA	2595	0			115	37.214		205	48.013	1.00	18.05		O
MOTA	2596	СВ			115	35.524		833	46.705	1.00	15.90		С
MOTA	2597	CG	PHE	C	115	35.825	16.	063	45.429	1.00	17.09		C
MOTA	2598	CD1	PHE	C	115	34.861	15.	299	44.845	1.00	16.21		C
MOTA	2599	CD2	PHE	C	115	37.094	16.	093	44.890	1.00	18.64		C
MOTA	2600	CE1	PHE	C	115	35.193	14.	558	43.744	1.00	19.14		С
ATOM	2601				115	37.429	15.	336	43.795	1.00	18.76		C
MOTA	2602	CZ			115	36.463		570	43.217	1.00	19.41		C
ATOM	2603	N			116	38.010			48.509	1.00	19.36		N
	2604	CA			116	39.36		618	48.454	1.00	17.90		C
MOTA		C			116	39.62			49.623	1.00	18.24		č
MOTA	2605	_			116	40.50		855	49.549	3 00	10 08	•	ŏ
MOTA	2606	0			116	40.37		744	48.162	1 00	16 33		č
MOTA	2607	CB	PAR	Š	116	40.442			46.679	1.00	16 27		Ξ
MOTA	2608	CG.	PHE	ž	116 116				45.753	1.00	14 00		È
MOTA	2609	CDI	PHE	Š	110	41.05			46.240	1.00	13.05		Š
MOTA	2610	CD2	PHE	č	116	39.800			46.240	1.00	12.03		ž
MOTA	2611	CEI	PHE	Ċ.		40.96		602	44.409	1.00	12.34		
MOTA	2612				116	39.71			44.885	1.00	14.12		<u>.</u>
MOTA	2613	CZ	PHE	C	116	40.289		711	43.980	1.00	10.60	•	C
MOTA	2614	N			117	38.75		664	50.641	1.00	20.78		N
MOTA	2615	CA			117	38.79		751	51.770	1.00	21.33	•	C
MOTA	2616	C	ARG	С	117	38.413		368	51.308	1.00	20.46	·	C
MOTA	2617	0	ARG	С	117	39.07	5 11.	405	51.639	1.00	21.70		0
MOTA	2618	CB	ARG	C	117	37.82	3 14.	244	52.840	1.00	21.70		C
MOTA	2619	CG	ARG	С	117 ·	37.83	3 13.	513	54.177	1.00	27.63		С
ATOM	2620	CD	ARG	С	117	36.82	5 14.	115	55.165	1.00	29.36		C
ATOM	2621	NE	ARG	C	117	37.23	15.	464	55.616	1.00	32.11		N
ATOM	2622	CZ	ARG	С	117 117	36.41	16.	.535	55.565	1.00	32.37		C
ATOM	2623		ARG	C	117	35.17	16.	464	55.047	1.00	32.61		N
ATOM	2624				117	36.830	5 17.	701	56.025	1.00	30.98		N
ATOM	2625	N			118	37.34		263	50.540	1.00	21.91	•	N
ATOM	2626	CA			118	36.89		031	49.882	1.00	22.55		С
ATOM	2627	C			118	37.94			48.890	1:00	23.60		Č
	2628	ŏ			118	38.25		316	48.853	1.00	24.72		000000
ATOM		СВ	TTP	č	118	35.52		358	49.213	1 00	22.47		č
ATOM	2629	CD 1	TIP	č	118	34.46		.506	50.293	1.00	21.67		č
MOTA	2630	COI	TIE	Š	118	35.11		.338	48.161	1 00	21 48		č
ATOM	2631					33.16		.169	49.825	1.00	21 12		Ξ
ATOM	<sup>2</sup> 632		TUE	č	118					1.00	22 86		N
MOTA	2633	N	PHE	Ċ	119	38.54		.402	48.103	1.00	23.00		~
MOTA	2634	CA			119	39.63		.098	47.186	1.00	22.73		Č
ATOM	2635	C	PHE	C	119	40.81		.488	47.916	1.00	24.24		C
MOTA	2636	0	PHE	C	119 119	41.23		.416	47.511	1.00	24.28		ō
MOTA	2637	CB	PHE	C	119	40.03			46.426	1.00	15.88		Č
ATOM	2638	CG	PHE	C	119	41.29		. 224	45.624	2.00			~
MOTA	.2639	CD1	PHE	C	119	41.23		.724	44.354		15.03		C
MOTA	2640	CD2	PHE	C	119	42.49		. 639	46.172		12.85		C
ATOM	2641	CE1	PHE	C	119	42.41		. 623	43.653		15.97		C
ATOM	2642	CE2	PHE	C	119	43.67		. 526	45.473		15.16		C
ATOM	2643	CZ	PHE	C.	119	43.63		. 003	44.206	1.00	16.33	•	C
MOTA	2644	N	ASN			41.39	6 11	.145	48.936	1.00	26.61		N
ATOM	2645	CA	ASN			42.51	1 10	. 621	49.728	1.00	27.10		C
MOTA	2646	Č.	ASN			42.22		.301	50.400	1.00	28.31		C
~304	24.4	_		_									

ATOM	2647	0	ASN	С	120	43.081	8.433	50.376	1.00 28.63	0
ATOM	2648	CB	ASN	С	120	42.959	11.590	50.783	1.00 24.50	C C C C C C C C C C C C C C C C C C C
MOTA	2649	CG	ASN	C	120	43.837	12.659	50.215	1.00 27.34	С
ATOM	2650	OD1	ASN	C	120	43.864	13.757	50.761	1.00 32.26	0
ATOM	2651	ND2	ASN	C	120	44.628	12.420	49.169	1.00 29.64	N
ATOM	2652	N	ARG	C	121	41.017	9.136	50.947	1.00 30.80	N
MOTA	2653	CA	ARG			40.549	7.862	51.441	1.00 35.49	C
MOTA	2654	С	ARG	C	121	40.514	6.767	50.357	1.00 36.43	Ç
ATOM	2655	0	ARG	С	121	40.859	5.616	50.628	1.00 38.58	. 0
ATOM	2656	CB	ARG	С	121	39.202	8.108	52.138	1.00 37.63	Č
MOTA	2657	CG	ARG			38.534	6.865	52.651	1.00 42.24	C
MOTA	2658	CD	ARG			37.240	7.194	53.373	1.00 47.82	C
MOTA	2659	NE	ARG			36.399	6.001	53.529	1.00 51.79	N
MOTA	2660	CZ	ARG			36.788	4.912	54.233	1.00 55.38	C
MOTA	2661		ARG			38.016	4.799	54.783	1.00 57.12	N
MOTA	2662		ARG			35.928	3.904	54.446	1.00 55.34	IV N
MOTA	2663	N	SER			40.171	7.089	49.106	1.00 36.49	
MOTA	2664	CA	SER			40.274	6.177	47.974	1.00 36.44 1.00 37.85	č
MOTA	2665	C .	SER			41.660	5.723 4.556	47.529 47.235		Õ
MOTA	2666	0_	SER			41.874			1.00 34.58	č
ATOM	2667	CB	SER			39.613	6.814 7.132	46.788 47.155	1.00 34.47	000101111110000000000000000000000000000
MOTA	2668	OG	SER			38.286 42.638	6.599	47.409	1.00 38.85	N
MOTA	2669	N	ILE			43.949	6.180	46.985	1.00 43.11	ĉ
MOTA	2670	CA	ILE			44.589	5.456	48.157	1.00 46.18	č
MOTA	2671	C	ILE			45.449	4.614	47.937	1.00 47.69	ŏ
MOTA	2672	O	ILE			44.843	7.378	46.505	1.00 42.65	č
MOTA	2673	CB	ILE			44.147	8.410	45.599	1.00 38.38	č
MOTA	2674		ILE			46.146	6.866	45.872	1.00 43.09	č
MOTA	2675		ILE			43.242	7.872	44.489	1.00 35.80	č
MOTA	2676	N	ASP			44.206	5.755	49.402	1.00 50.61	N
MOTA	2677	CA	ASP			44.805	5.095	50.564	1.00 54.85	C
MOTA	2678 2679	c	ASP			44.197	3.730	50.882	1.00 54.20	C
ATOM ATOM	2680	ŏ	ASP			44.774	2.898	51.586	1.00 54.57	0
ATOM	2681	СВ	ASP			44.788	5.989	51.823	1.00 59.47	C
MOTA	2682	CG	ASP			45.794	7.151	51.915	1.00 63.36	С
MOTA	2683		ASP			45.935	7.919	50.949	1.00 63.45	0
MOTA	2684		ASP			46.414	7.295	52.988	1.00 66.94	U
ATOM	2685	N			125	43.039	3.460	50.281	1.00 54.57	N
ATOM	2686	CA			125	42.427	2.137	50.314	1.00 56.99	CC
MOTA	2687	C			125	43.150	1.108	49.440	1.00 58.85	Ç
ATOM	2688	0	ALA	C	125	42.617	0.022	49.161	1.00 59.46	0
ATOM	2689	CB			125	40.982	2.263	49.824	1.00 56.08	C
MOTA	2690	N	PHE	C	126	44.343		48.975	1.00 60.81	N
ATOM	2691	CA	PHE	C	126	45.408	0.793	48.316	1.00 62.82	C
ATOM	2692	C			126	46.675	0.603	49.241	1.00 64.91	Ċ
MOTA	2693	0			126	47.801	0.492	48.731	1.00 65.88	0
ATOM	2694	CB			126	45.715	1.476	46.898	1.00 60.15	. c
ATOM	2695	CG			126	44.638	1.419	45.778	1.00 57.55	C
MOTA	2696		PHE			43.594	2.334	45.731	1.00 56.09	C
MOTA	2697				126			44.813	1.00 56.90	
MOTA	2698	CE1	PHE	C	126	42.568	2.227	44.807	1.00 52.24	C
MOTA	2699		PHE			43.627	0.319	43.884	1.00 54.42	Ġ
MOTA	2700	CZ			126	42.573	1.208	43.889	1.00 52.99	C
TER	2702				126		44 000	20 626	1.00 52.77	27
MOTA	2703	N	ASN			47.774	44.287	38.626	1.00 52.77	. N
MOTA	2704	CA	ASN			46.416	43.904	38.273		c
MOTA	2705	C	ASN			46.383	43.039	36.995 37.139		ō
MOTA	2706	0_	ASN	_		46.673	41.852			. č
MOTA	2707	CB	asn	D	11	45.488	45.136	38.154	1.00 34.37	, .

ATOM	2708	N	VAL	D	12	46.135	43.551	35.763	1.00 49.81	N
MOTA	2709	CA	VAL	D	12	45.936	42.823	34.490	1.00 45.10	С
ATOM	2710	·C	VAL	D	12	46.697	41.529	34.194	1.00 40.73	С
ATOM	2711	0	VAL	D	1.2	46.109	40.477	33.958	1.00 39.20	0
ATOM	2712	CB	VAL		12	46.118	43.863	33.336	1.00 46.99	С
ATOM	2713	CG1	VAL		12	46.377	43.229	31.966	1.00 47.11	С
ATOM	2714		VAL		12	44.888	44.784	33.225	1.00 46.26	· c
ATOM	2715	N	LYS		13	48.014	41.610	34.165	1.00 37.97	N
ATOM	2716	CA	LYS		13	48.844	40.432	34.132	1.00 36.45	C
	2717	c	LYS		13	48.402	39.322	35.117	1.00 36.18	Č
MOTA	2718	ō	LYS		13	48.194	38.166	34.709	1.00 37.38	Ö
ATOM		CB	LYS		13	50.258	40.905	34.451	1.00 35.89	č
MOTA	2719	-	ASP		14	48.190	39.643	36.410	1.00 33.96	n
ATOM	2720	N	ASP		14	47.703	38.684	37.372	1.00 29.22	ë
MOTA	2721	CA	ASP		14	46.220	38.409	37.305	1.00 25.55	Č
MOTA	2722	Č				45.799	37.316	37.647	1.00 25.36	ŏ
MOTA	2723	0	ASP		14	48.158	39.126	38.726	1.00 33.71	č
MOTA	2724	CB	ASP		14				1.00 41.45	č
ATOM	2725	CG	ASP		14	49.573	38.623	39.084		Õ
ATOM	2726		ASP		14	50.178	37.858	38.316	1.00 45.64	ő
MOTA	2727		ASP		14	50.083	38.981	40.161	1.00 44.73	
ATOM	2728	N	VAL		15	45.421	39.347	36.809	1.00 22.15	N
MOTA	2729	CA	VAL		15	44.000	39.173	36.672	1.00 19.73	C
MOTA	2730	С	VAL		15	43.683		35.731	1.00 21.56	. с
MOTA	2731	0	VAL		15	42.825	37.217	36.016	1.00 23.37	0
MOTA	2732	ÇB	VAL		15	43.294	40.462	36.234	1.00 18.49	C
MOTA	2733		VAL		15	41.883	40.238	35.684	1.00 17.31	C
MOTA	2734	CG2	VAL		15	43.093	41.327	37.450	1.00 17.77	c
MOTA	2735	N	THR	D	16	44.387	37.974	34.623	1.00 22.81	N
MOTA	2736	CA	THR	D	16	44.166	36.943	33.605	1.00 24.47	. <u>c</u>
MOTA	2737	С	THR	D .	16	44.517		34.082	1.00 21.91	C
MOTA	2738	0	THR	D	16	43.904	34.526	33.676	1.00 20.78	0
MOTA	2739	CB .	THR	D	16	44.991	37.520	32.381	1.00 26.36	C
MOTA	2740	OG1	THR	D	16	44.076	38.310	31.630	1.00 28.31	0
MOTA	2741	CG2	THR	D	16	45.721	36.529	31.530	1.00 28.93	C
MOTA	2742	N	LYS	D	17	45.470	35.415	35.016	1.00 20.72	N
MOTA	2743	CA	LYS	D	17	45.958	34.179	35.596	1.00 20.21	Ċ
MOTA	2744	C	LYS	D	17	45.019	33.719	36.683	1.00 18.63	Ç
MOTA	2745	0	LYS	D	17	44.754	32.526	36.783	1.00 21.04	0
MOTA	2746	CB	LYS	D	17	47.277	34.522	36.207	1.00 24.75	c
MOTA	2747	CG	LYS	D	17	48.163	33.373	36.590	1.00 29.44	C
ATOM	2748	CD	LYS	D	17	49.365	33.928	37.347	1.00 32.96	· c
MOTA	2749	CE	LYS	D	17	50.423	34.474	36.422	1.00 36.20	Ċ
MOTA	2750	NZ	LYS		17 .	51.313	35.272	37.230	1.00 39.87	N
ATOM	2751	N	LEU		18	44.483	34.656	37.468	1.00 16.11	N
ATOM	2752	CA	LEU		18	43.391	34.389	38.362	1.00 13.77	С
ATOM	2753	č	LEU		18	42.158	33.926	37.636	1.00 14.10	C
MOTA	2754	ŏ	LEU		18	41.662	32.898	38.072	1.00 17.61	0
MOTA	2755	СВ	LEU		18	43.070	35.599	39.180	1.00 14.87	C
ATOM	2756	CG	LEU		18	42.103	35.485	40.362	1.00 15.58	С
MOTA	2757	CD1	LEU		18	42.567	34.568	41.470	1.00 11.31	. С
MOTA	2758		LEU		18	41.872	36.849	40.952	1.00 15.28	C
		N	VAL		19	41.617	34.544	36.561	1.00 15.42	N
MOTA	2759	CA	VAL		19	40.479	34.034	35.786	1.00 13.39	, C
MOTA	2760		VAL		19	40.704	32.587	35.385	1.00 14.30	C
MOTA	2761	C			19	39.824	31:744	35.542	1.00 13.93	ō
ATOM	2762	0	VAL			40.251	34.838	34.489	1.00 14.39	č
MOTA	2763	CB	VAL		19	39.059	34.330	33.694	1.00 11.41	· č
ATOM	2764	CGI	VAL	2	19	39.913	36.255	34.797	1.00 12.80	č
MOTA	2765		.VAL		19	41.911	32.288	34.876	1.00 14.50	N
MOTA	2766	N	ALA		20	42.319	30.924	34.543	1.00 15.90	ç
MOTA	2767	CA	ALA	ט	20	46.313	30.364	22,223	1.00 13.30	C

MOTA	2768	C .	ALA	D	20	42.340	29.894	35.680	1.00 1		
	2769	0	ALA	D	20	42.153	28.697	35.464	1.00 14		
	2770	CB	ALA	D	20	43.719	30.983	33.946	1.00 1		
ATOM :	2771	N	asn	D	21	42.543	30.396	36.914	1.00 1		
ATOM :	2772		ASN		21	42.665	29.549	38.081	1.00 1		
ATOM	2773	C	asn	-	21	41.408	29.513	38.923	1.00 1		
ATOM	2774	0	asn		21	41.343	28.894	39.982	1.00 1		
	2775	CB	ASN		21	43.863	30.085	38.853	1.00 1		
	2776	CG	asn		21	44.760	29.000	39.360	1.00 1		
	2777		ASN		21	45.002	28.023	38.669	1.00 1		
	2778		ASN		21	45.313	29.122	40.545 38.493	1.00 1		
	2779	N	LEU		22	40.364 39.069	30.201 30.126	39.157	1.00 1		
	2780	CA	LEU		22 22	38.172	29.241	38.319	1.00 1		
	2781	C	LEU		22	38.337	29.289	37.109	1.00 1		
	2782	O CP	LEU		22		31.498	39.326	1.00 1		
	2783	CB	LEU		22	39.203	32.454	40.210	1.00 1		
•	2784 2785		LEU		22	38.580	33.801	40.004	1.00 1		
•••	2786 2786		LEU		22	39.108	32.071	41.671	1.00 1		
	2787	N	PRO		23	37.246	28.422	38.825	1.00 1		
	2788	CA	PRO		23	36.365	27.588	38.004	1.00 1	5.30	
•	2789	c	PRO		23	35.533	28.456	37.064	1.00 1	6.55	
	2790	ŏ	PRO		23	35.044	29.485	37.502	1.00 1		
	2791	CB	PRO		23	35.474	26.944	39.027	1.00 1		
	2792	CG	PRO	D	23	36.252	27.043	40.317	1.00 1		
	2793	CD	PRO	D	23	36.854	28.409	40.228	1.00 1		
	2794	N	LYS		24	35.319	28.105	35.785	1.00 1		
MOTA	2795	CA	LYS		24	34.492		.34.822	1.00 1	9.57	
MOTA	2796	С	LYS		24	33.027	28.975	35.241	1.00 1		
	2797	0	LYS		24	32.381	29.956	34.910	1.00 2		
	2798	CB	LYS		24	34.575	28.214	33.425	1.00 2		
	2799	CG	LYS		24	35.853	28.425	32.655	1.00 1		
	2800	CD	LYS		24	36.049	27.261 27.297	31.683 31.291	1.00 2		
ATOM	2801	CE	LYS		24	37.542 38.019	26.084	30.623	1.00 2		
MOTA	2802	NZ	LYS ASP		24 25 ·	32.490	28.011	36.007	1.00 2		
MOTA	2803	N CA	ASP		25	31.146	27.984	36.585	1.00 2		
ATOM	2804 2805	C	ASP		25	31.084	28.420	38.037	1.00 2		
MOTA	2806	ŏ	ASP		25	30.092	28.177	38.714	1.00 2		•
ATOM ATOM	2807	CB	ASP		25	30.557	26.555	36.502	1.00 2	21.95	
ATOM	2808	CG	ASP		25	31.274	25.501	37.333	1.00 2	86.54	
ATOM	2809		ASP		25	32.429	25.721	37.693	1.00 2		
ATOM	2810		ASP		25	30.697	24.445	37.616	1.00 2		
MOTA	2811	N	TYR	D	26	32.109		. 38.591	1.00		
ATOM	2812	CA	TYR	D	26	31.978	29.716	39.865	1.00 1		
ATOM	2813	C	TYR		26	31.327	31.078	39.666	1.00		
MOTA	2814	0	TYR		26	31.837	31.882	38.892	1.00		
MOTA	2815	CB	TYR		26 .	33.388	29.886	40.446	1.00		
MOTA	2816	CG	TYR		26	33.487	30.459	41.844	1.00		
MOTA	2817		TYR	_	26	32.718	29.938	42.855 42.057	1.00	L7.40	
MOTA	2818		TYR		26	34.309	31.538	44.078	1.00		
MOTA	2819		TYR		26	32.689 34.304	30.542 32.124	43.291	1.00		
MOTA	2820				26 26	33.494	31.613	44.276	1.00		
MOTA	2821	CZ	TYR		26 26	33.553	32.163	45.538	1.00		
ATOM	2822	OH	TYR MSE		26 27	30.240	31.351	40.390	1.00		
HETATM	2023	N	MSE		27	29.563	32.640	40.409	1.00		•
HETATM HETATM	2024	CA C	MSE		27	29.972	33.547	41.554	1.00		
HETATM	2023	Ö	MSE		27	29.844	33.217		. 1.00		
HETATM		CB	MSE		27	28.030	32.478	40.470	1.00	25.00	
UPTWIM	4941	CD		_	<del>-</del> -						

HETATM	2828	CG	MSE	D :	27	27.356	31.633	39.361	1.00 27.34	С
HETATM	2829	SE	MSE	D :	27	28.005	31.953	37.549	1.00 33.76	SE
HETATM		CE	MSE	D :	27	27.146	33.538	37.334	1.00 29.16	С
ATOM	2831	N	ILE		28	30.503	34.700	41.191	1.00 18.26	N
MOTA	2832	CA	ILE		28	30.838	35.733	42.127	1.00 18.98	С
	2833	C	ILE		28	29.668	36.703	42.239	1.00 19.61	C
MOTA	2834	ō	ILE		28	29.151	37.088	41.196	1.00 22.18	0
ATOM	2835	СВ	ILE		28	32.136	36.421	41.662	1.00 15.61	С
ATOM	2836		ILE		28	33.234	35.398		1.00 12.73	С
_	2837		ILE		28	32.593	37:471	42.693	1.00 15.00	Ċ
MOTA MOTA	2838		ILE		28	34.487	35.969	40.818	1.00 10.07	Č
MOTA	2839	N	THR		29	29.199	37.105	43.433	1.00 20.30	N
	2840	CA	THR		29	28.142	38.118	43.587	1.00 18.55	Ċ
MOTA	2841	č	THR		29	28.720	39.514	43.593	1.00 18.51	Č
ATOM	2842	õ	THR		29	29.681	39.757	44.305	1.00 20.24	Ō
MOTA		CB	THR		29	27.248	37.915	44.853	1.00 18.42	·c
MOTA	2843 2844		THR		29	26.791	36.570	44.817	1.00 20.41	. 0
MOTA		CGS	THR	n .	29	25.982	38.747	44.836	1.00 16.39	Ċ
ATOM	2845	N CG2	LEU		30	28.205	40.455	42.785	1.00 18.52	N
MOTA	2846	CA	LEU		30	28.610	41.845	42.783	1.00 17.78	Ċ
ATOM	2847	Č.	LEU		30	27.305	42.598	42.724	1.00 19.35	Č
MOTA	2848 2849	ŏ	LEU		30	26.420	42.245	41.946	1.00 19.98	Ŏ
MOTA	2850	СВ	LEU		30	29.390		41.505	1.00 18.28	Ċ
MOTA	-	CC,	LEU		30	29.905	43.557	41.154	1.00 15.52	Ċ
MOTA	2851 2852		LEU		30	30.720	44.170	42.241	1.00 15.62	Ċ
ATOM	2853		LEU		30	30.732	43.522	39.879	1.00 17.11	С
ATOM ATOM	2854	N	LYS		31	27.150	43.613	43.560	1.00 20.05	N
	2855	CA	LYS		31	26.046	44.522	43.409	1.00 21.35	С
MOTA MOTA	2856	c	LYS		31	26.413	45.564	42.354	1.00 23.46	С
ATOM	2857	ŏ	LYS		31	27.223	46:470	42.561	1.00 23.96	0
ATOM	2858	CB	LYS		31	25.702	45.148	44.722	1.00 21.22	C
ATOM	2859	CG	LYS		31	25.353	44.109	45.766	1.00 23.53	С
ATOM	2860	CD	LYS		31	24.738	44.814	46.976	1.00 28.13	C
ATOM	2861	CE	LYS	D	31	24.583	43.890	48.182	1.00 29.07	С
ATOM	2862	NZ	LYS	D	31	23.982	44.617	49.293	1.00 34.24	N
ATOM	2863	N	TYR	D	32	25.818	45.356	41.172	1.00,25.01	N
MOTA	2864	CA	TYR	D	32	26.219	46.004	39.925	1.00 25.06	C
ATOM	2865	С	TYR	D	32	25.377	47.248	39.752	1.00 26.53	Ċ
MOTA	2866	0	TYR		32	24.167	47.293	40.046	1.00 27.71	0
MOTA	2867	CB	TYR	Ð	32	26.050	44.978	38.778	1.00 25.42	C
ATOM	2868	CG	TYR		32	26.196	45.465	37.336	1.00 24.15	· c
MOTA	2869		TYR		32	27.433	45.460	36.728	1.00 22.29	, c
MOTA	2870		TYR		32	25.071	45.915	36.672	1.00 23.90	Ċ.
MOTA	2871		TYR		32	27.558	45.961	35.459	1.00 24.06	000
MOTA	2872		TYR		32	25.183	46.427	35.409	1.00 25.00	
MOTA	2873	CZ	TYR		32	26.427	46.458	34.822	1.00 26.48	0
MOTA	2874	OH	TYR		32	26.533	47.012	33.558	1.00 26.81	
MOTA	2875		VAL		33	26.099	48.297	39.333	1.00 28.52	N
MOTA	2876		VAL		33	25.505	49.613	39.093	1.00 27.57	C.
MOTA	2877		VAL		33	24.973	49.634	37.670	1.00 27.14	ŏ
MOTA	2878		VAL		33		49.693	36.750		_
MOTA	2879		VAL		33	26.529	50.724	39.288	1.00 26.82	C
MOTA	2880		VAL		33	25.931	52.066	38.921	1.00 25.83	· c
MOTA	2881		VAL		33	26.880	50.758 49.548	40.755 37.434	1.00 25.22	. N
MOTA	2882		PRO		34	23.674	49.608	36,105	1.00 28.26	Ĉ
MOTA	2883		PRO		34	23.085 23.491	50.909	35.413	1.00 31.20	· č
MOTA	2884		PRO		34	23.649	51.980	36.012	1.00 32.62	ŏ
ATOM	2885		PRO		34	21.617	49.574	36.407	1.00 27.82	č
MOTA	2886		PRO		34	21.523	48.866	37.750	1.00 29.77	č
MOTA	2887	CG	PRO	ע	34	41.343	40.000	34,.730		•

MOTA	2888	CD	PRO	D	34	22.668	49.494	38.488	1.00 27.97	С
MOTA	2889	N	GLY		35	23.756	50.780	34.117	1.00 32.89	N
MOTA	2890	CA	GLY		35	24.265	51.891	33.338	1.00 34.68	С
	2891	Č.	GLY		35	25.749	52.065	33.438	1.00 34.91	С
MOTA			GLY		35	26.271	53.066	32.991	1.00 38.32	0
MOTA	2892	0			36	26.456	51.105	33.995	1.00 36.03	N
HETATM		N	MSE				51.084	34.060	1.00 38.11	Ĉ
HETATM	2894	CA	MSE		36	27.910				č
HETATM	2895	C	MSE		36	28.634	51.193	32.726	1.00 38.57	
HETATM	2896	0	MSE	D	36	29.741	51.717	32.594	1.00 39.99	0
<b>HETATM</b>	2897	CB	MSE	D	36	28.255	49.744	34.622	1.00 41.60	c
<b>HETATM</b>	2898	CG	MSE	D	36	28.972	49.795	35.911	1.00 45.00	C
HETATM	2899	SE	MSE	D	36	30.412	48.532	35.745	1.00 54.90	SE
HETATM	2900	CE	MSE	D	36	30.966	48.492	33.897	1.00 45.21	С
ATOM	2901	N	ASP	D	37	27.956	50.571	31.760.	1.00 39.01	N
ATOM	2902	CA	ASP		37	28.357	50.446	30.370	1.00 37.84	C
ATOM	2903	Č.	ASP		37	28.125	51.687	29.525	1.00 37.29	С
	2904	ŏ	ASP		37	29.067	52.169	28.896	1.00 40.17	0
MOTA		СВ	ASP		37	27.725	49.194	29.760	1.00 37.35	· C
MOTA	2905				37	26.258	48.854	30.083	1.00 40.62	C
MOTA	2906	CG	ASP			25.560	49.672	30.709	1.00 39.43	. 0
MOTA	2907		ASP		37	25.813	47.752	29.705	1.00 41.13	ō
MOTA	2908		ASP		37			29.525	1.00 36.85	n
MOTA	2909	N	VAL		38	26.930	52.266			ç
MOTA	2910	CA	VAL		38	26.665	53.462	28.719	1.00 38.43	č
ATOM	2911	C	VAL		38	27.021	54.828	29.311	1.00 39.02	õ
ATOM	2912	0	VAL	D	38	27.395	55.748	28.581	1.00 39.83	Š
MOTA	2913	CB	VAL		38	25.212	53.466	28.171	1.00 36.76	c
MOTA	2914	CG1	VAL	D	38	25.086	52.227	27.356	1.00 36.24	c
ATOM	2915	CG2	VAL	D	38	24.081	53.482	29.175	1.00 36.31	C
MOTA	2916	N	LEU	D	39	26.886	54.965	30.641	1.00 39.92	N
ATOM	2917	CA	LEU		39	27.031	56.231	31.341	1.00 38.96	Č
ATOM	2918	Č	LEU		39	28.495	56.624	31.625	1.00 41.40	Ç
MOTA	2919	ŏ	LEU		39	29397	55.777	31.589	1.00 40.82	0
ATOM	2920	CB	LEU		39	26.208	56.247	32.637	1.00 35.81	c c
	2921	CG	LEU		39	24.706	56.030	32.689	1.00 34.1B	. C
ATOM	2922		LEU		39	24.285	56.206	34.141	1.00 33.76	C
MOTA	2923		LEU		39	23.900	56.980	31.827	1.00 31.66	C
MOTA		N N	PRO		40	28.807	57.926	31.852	1.00 44.17	N
MOTA	2924		PRO		40	30.141	58.383	32.244	1.00 44.44	С
MOTA	2925	CA	PRO		40	30.420	58.032	33.699	1.00 42.47	. С
MOTA	2926	Ç.				29.550	58.003	34.562	1.00 42.05	0
ATOM	2927	0	PRO		40	30.115	59.908	32.011	1.00 45.14	Ċ
MOTA	2928	СВ	PRO		40	28.674	60.256	32.263	1.00 45.10	Č
MOTA	2929	CG	PRO		40		59.092	31.603	1.00 46.22	Č
MOTA	2930	CD	PRO		40	27.934		33.906	1.00 42.00	. N
ATOM	2931	N	SER		41	31.694	57.749		1.00 39.50	Ċ
MOTA	2932	CA	SER		41	32.266	57.360	35.166		. č
MOTA	2933	C	SER		41	31.724	58.115	36.365	1.00 38.61	Ö
MOTA	2934	0	SER	D	41	31.345	57.439	37.303	1.00 38.99	Č
MOTA	2935	CB	SER	D	41	33.760	57.491	35.009	1.00 40.43	~
MOTA	2936	OG	SER	D	41	34.204	56.814	33.824	1.00 45.16	Ö
MOTA	2937	N	HIS	D	42	31.550	59.442	36.396	1.00 38.17	N
MOTA	2938		HIS	D	42	31.018	60.127	37.567	1.00 36.99	C
MOTA	2939		HIS		42	29.633	59.685	38.068	1.00 38.51	Ç
ATOM	2940		HIS		42	29.219	59.978	39.190	1.00 39.73	O
	2941		HIS		42	31.062	61.646	37.328	1.00 36.53	C
MOTA			HIS	ñ	42	29.988	62.146	36.370	1.00 34.40	C
MOTA	2942		HIS	ň	42	30.070	62,275	35.063		N
MOTA	2943		HIS	7	42	28.694	62.443	36.749		C
ATOM	2944		HIS	ב	42	28.872	62.607	34.629		ď
ATOM	2945		HIS	ב	42	28.050		35.644	1.00 37.56	ì
MOTA	2946		CAS HT2			28.848		37.261		1
A TOOM	2047	n n	CYS	. 13	44.5	40.040				•

MOTA	2948	CA	CYS	D	43	27.521	58.516	37.662	1.00 40.95	С
MOTA	2949	C	CYS	D	43	27.545	57.165	38.394	1.00 38.66	С
MOTA	2950	.0	CYS	D	43	26.556	56.769	39.027	1.00 38.58	0
ATOM	2951	CB	CYS	D	43	26.561	58.489	36.426	1.00 43.16	. С
ATOM	2952	SG	CYS		43	25.889	60.126	35.971	1.00 50.07	S
ATOM	2953	N	TRP		44	28.677	56.450	38.300	1.00 34.96	N
ATOM	2954	CA	TRP		44	28.763	55.094	38.789	1.00 32.27	С
ATOM	2955	c	TRP		44 .	30.055	54.754	39.486	1.00 32.35	С
ATOM	2956	ŏ	TRP		44	30.010	53.891	40.349	1.00 34.30	0
ATOM	2957	CB	TRP		44	28,502	54.045	37.688	1.00 29.74	Ċ
ATOM	2958	CG	TRP		44	29,428	54.039	36.479	1.00 25.62	· c
ATOM	2959	CD1			44	29.034	54.689	35.340	1.00 24.56	C
ATOM	2960		TRP		44	30.636	53.392	36.360	1.00 24.29	. č
	2961		TRP		44	30.006	54.462	34.497	1.00 26.57	N
ATOM	2962		TRP		44	30.972	53.705	35.046	1.00 25.16	Ċ
MOTA	2963	CE3			44	31.442	52.536	37.072	1.00 21.05	Ċ
ATOM	2964				44	32.119	53.210	34.446	1.00 23.57	Ċ
ATOM			TRP		44	32.600	52.058	36.490	1.00 21.72	Č
MOTA	2965	CZ3	TRP		44	32.956	52.395	35.194	1.00 23.72	Č
MOTA	2966				45	31.191	55.378	39.216	1.00 31.34	N
MOTA	2967	N	ILE			32.444	54.851	39.687	1.00 34.23	ë
MOTA	2968	CA	ILE		45	32.627	54.719	41.206	1.00 35.04	č
MOTA	2969	C	ILE		45				1.00 36.05	ŏ
MOTA	2970	0	ILE		45		55.584	38.980	1.00 35.62	č
MOTA	2971	CB	ILE		45	33.586	54.917	39.068	1.00 36.05	č
MOTA	2972		ILE		45	34.959	56.959	39.592	1.00 37.86	č
MOTA	2973		ILE		45	33.716	53.482	38.545	1.00 36.81	č
MOTA	2974		ILE		45	35.020		42.080	1.00 35.07	n
MOTA	2975	N	SER		46	32.100	55.591			Č
MOTA	2976	CA	SER		46	32.421	55.538	43.500	1.00 35.85 1.00 35.51	
MOTA	2977	C	SER		46	31.651	54.443	44.213		Ö
MOTA	2978	0_	SER		46	32.169	53.858	45.165	1.00 38.41	č
MOTA	2979	CB	SER		46	32.165	56.852	44.223	1.00 36.96	Ö
ATOM	2980	OG	SER		46	30.786	57.005	44.534	1.00 40.12	N
MOTA	2981	N	GLU		47	30.419	54.185	43.770	1.00 33.93	
MOTA	2982	CA	GLU		47	29.656	53.051	44.230	1.00 32.65	C
MOTA	2983	C	GLU		47	30.197	51.773	43.648	1.00 31.56	Ö
MOTA	2984	0	GLU		47	30.216	50.761	44.339	1.00 31.25	č
MOTA	2985	CB	GLU		47	28.206	53.193	43.842	1.00 36.42	
ATOM	2986	CG	GLU		47	27.306	51.989	44.164	1.00 45.32	. 5
MOTA	2987	CD	GLU		47	26.964	51.716	45.628	1.00 48.90	0
MOTA	2988	OE1	GLU	D	47	27.839	51.323	46.399	1.00 52.24	ŏ
MOTA	2989		GLU		47	25.797	51.872	45.995	1.00 52.95	
HETATM	2990	N	MSE		48	30.646	51.788	42.398	1.00 30.45	И
	2991	CA	MSE		48	31.189	50.592	41.798	1.00 31.67	C C
HETATM	2992	C	MSE		48	32.499	50.155	42.444	1.00 30.88	
HETATM	2993	0	MSE		48	32.694	48.961	42.577	1.00 33.46	0
HETATM	2994	CB	MSE		48	31.394	50.777	40.342	1.00 32.74	C
HETATM	2995	CG	MSE	D	48	31.510	49.459	39.632	1:00 36.29	C
HETATM		SE	MSE		48	29.910	48.366	39.787	1.00 47.34	33 2
HETATM	2997	CE	MSE	D	48	30.895	46.927	39.264	1.00 38.75	C
MOTA	2998	N	VAL	D	49		50.984	42.904	1.00 30.60	N
MOTA	2999	CA	VAL		49	34.605	50.504	43.671	1.00 29.47	C
MOTA	3000	. C	VAL	D	49	34.285	50.012	45.074	1.00 27.89	C
MOTA	3001	0	VAL	D	49	34.967	49.128	45.596	1.00 27.63	0
MOTA	3002	CB .	VAL		49	35.828	51.488	43.781	1.00 30.38	C
MOTA	3003	CG1	VAL	D	49	36.552	51.617	42.439	1.00 30.57	C
ATOM	3004		VAL		49	35.440	52.863	44.340	1.00 30.43	C
ATOM	3005	N	VAL		50	33.263	50.622	45.679	1.00 25.21	N
ATOM	3006	CA	VAL		50	32.754	50.149	46.945	1.00 24.70	C
MOTA	3007	C	VAL	D	50	32.153	48.745	46.832	1.00 24.08	C

ATOM	3008	0	VAL	D	50	32.438	47.921	47.699	1.00 25.08	0
ATOM	3009	CB	VAL	D	50	31.757	51.172	47.504	1.00 24.15	Ç
MOTA	3010	CG1	VAL	D	50	30.945	50.583	48.650	1.00 24.85	C
MOTA	3011	·CG2	VAL	D	50	32.484	52.411	47.974	1.00 21.01	C
MOTA	3012	N	GLN		51	31.343	48.470	45.796	1.00 22.06	N
MOTA	3013	CA	GLN	D	51	30.807	47.154	45.522	1.00 22.13	C
MOTA	3014	C	GLN		51	31.810	46.099	45.123	1.00 20.89	c
MOTA	3015	0	GLN		51	31.663	44.940	45.479	1.00 21.33	0
MOTA	3016	CB	GLN		51	29.719	47.249	44.484	1.00 24.57	· c
MOTA	3017	CG	GLN		51	28.496	47.999	45.018	1.00 26.12	C
MOTA	3018	CD	GLN		51	27.936	47.379	46.304	1.00 26.75	C
MOTA	3019		GLN		51	28.128	46.194	46.616	1.00 25.54	0
MOTA	3020		GLN		51	27.234	48.198	47.088	1.00 26.23	N
MOTA	3021	N	LEU		52	32.839	46.544	44.423	1.00 19.69	N
MOTA	3022	CA	LEU		52	33.966	45.728	44.057	1.00 20.34	c
MOTA	3023	С	LEU		52	34.831	45.383	45,250	1.00 20.47	C 0
MOTA	3024	0	LEU		52	35.199	44.215	45.356	1.00 23.75	· c
MOTA	3025	CB	LEU		52	34.866	46.398	42.976	1.00 19.72	c
ATOM	3026	CG	LEU		52	34.402	46.541	41.509	1.00 18.02	
ATOM	3027		LEU		52	35.404	47.412	40.807		č
ATOM	3028		LEU		52	34.217	45.177	40.844	1.00 14.93	N
MOTA	3029	N	SER		53	35.178	46.294	46.165	1.00 21.36 1.00 22.45	Č
MOTA	3030	CA	SER		.53	35.913	45.942	47.377	1.00 22.45	č
ATOM	3031	C	SER		53	35.173	44.873	48.166 48.565	1.00 22.70	õ
MOTA	3032	0_	SER		53	35.770	43.895 47.178	48.233	1.00 25.43	C
MOTA	3033	CB	SER		53	36.117	46.917	49.410	1.00 23.43	ŏ
MOTA	3034	OG	SER		53	36.882	44.962	48.286	1.00 23.74	. N
MOTA	3035	N	ASP		54	33.852	44.038	49.030	1.00 25.51	Ċ
MOTA	3036	CA	ASP		54	33.021 33.119	42.633	48.500	1.00 22.56	č
ATOM	3037	C	ASP		54	33.390	41.711	49.250	1.00 22.33	ŏ
ATOM	3038	0	ASP		54	31.565	44.500	48.963	1.00 32.00	· č
MOTA	3039	СВ	ASP		54 54	30.624	43.913	50.019	1.00 42.23	č
ATOM	3040	CG	ASP			30.024	42.792	49.841	1.00 45.21	ŏ
MOTA	3041		ASP		54	30.364	44.607	51.018	1.00 49.94	ŏ
MOTA	3042		ASP		54 55	32.943	42.520	47.192	1.00 19.99	N
MOTA	3043	N	SER		55 55	32.933	41.258	46.504	1.00 16.42	.c
MOTA	3044	CA .			55 55	34.279	40.596	46.521	1.00 14.71	Č
MOTA	3045	C	SER		55 55	34.395	39.393	46.693	1.00 15.83	· ō
ATOM	3046	0	SER		55	32.503	41.468	45.066	1.00 16.29	Č
MOTA	3047	CB	SER SER		55	31.170	41.909	44.886	1.00 19.97	Ö
MOTA	3048	OG	LEU		56	35.296	41.406	46.315	1.00 15.85	N
ATOM	3049	N	LEU		56	36.638	40.884	46.345	1.00 17.57	Ċ
ATOM	3050	· CA	LEU.		56	37.034	40.485	47.744	1.00 17.75	Č
MOTA	3051	C	LEU		56	37.782	39.527	47.863	1.00 19.01	Ō
ATOM	3052	O CB	LEU		56	37.619	41.904	45.848	1.00 17.61	· d
ATOM	3053	CG	LEU		56	37.813	42.091	44.344	1.00 21.27	Ċ
ATOM	3054		LEU		56	38.577	43.396	44.141	1.00 19.96	
ATOM	3055		LEU		56	38.540	40.936	43.687	1.00 16.32	C
ATOM	3056 3057	N N	THR		57	36.560	41.169	48.803	1.00 19.07	N
ATOM	3058	CA	THR	D.	57	36.864	40.818	50.189	1.00 17.97	C
MOTA			·THR		57	36.126	39.571	50.566	1.00 18.20	C
MOTA	3059	ò	THR		57	36.674	38.746	51.266	1.00 20.89	Ċ
MOTA	3060	CB	THR		57	36.521	41.984	51.099	1.00 19.37	Ċ
MOTA	3061				5 <i>7</i>	37.503	42.932	50.741	1.00 20.91	Č
MOTA	3062	OG1 CG2			57	36.778	41.786	52.575	1.00 26.13	č
MOTA	3063		ASP		58	34.924	39.346	50.085	1.00 18.03	N
MOTA	3064	N CA	ASP		58	34.293	38.066	50.220	1.00 18.76	ō
MOTA	3065		ASP		58	34.958	37.009	49.397	1.00 20.46	Č
MOTA	3066	C	ASP		58	35.041	35.878	49.865	1.00 20.47	(
MOTA	3067	9	no:	_						

MOTA	3068	CB	ASP	D	58	32.859	38.102	49.791	1.00 21.24	C
ATOM	3069	CG	ASP		58	32.043	39.157	50.517	1.00 26.19	C
ATOM	3070		ASP		58	32.458	39.665	51.572	1.00 26.83	Ō
	3071		ASP		58	30.970	39.481	49.993	1.00 30.50	Ö
MOTA						35.449	37.324	48.197	1.00 19.65	Ň
MOTA	3072	N	LEU		59					č
MOTA	3073	CA	LEU		59	36.099	36.331	47.383	1.00 18.09	č
MOTA	3074	С	LEU		59	37.345	35.878	48.090	1.00 19.12	Ç
MOTA	3075	0	LEU		59	37.553	34.694	48.251	1.00 23.04	0
ATOM	3076	CB	LEU	D	<b>59</b> ,	36.392	36.893	46.028	1.00 16.75	С
ATOM	3077	CG	LEU	D.	59	36.808	35.864	45.048	1.00 17.14	С
ATOM	3078		LEU	D	59	35.714	34.823	44.909	1.00 16.41	. с
ATOM	3079		LEU		59	37.209	36.546	43.769	1.00 16.93	C
MOTA	3080	N	LEU		60	38.132	36.764	48.667	1.00 21.47	N
		ĊA	LEU		60	39.332	36.428	49.431	1.00 22.73	C
MOTA	3081		LEU		60	39.173	35.401	50.564	1.00 24.38	· č
MOTA	3082	C				40.084	34.626	50.853	1.00 25.12	ŏ
atom	3083	0	LEU		60				1.00 21.70	č
MOTA	3084	CB	LEU		60	39.852	37.726	50.017		Š
MOTA	3085	CG	LEU		60	41.196	37.710	50.670	1.00 23.77	c
MOTA	3086	CD1	LEU	D	60	42,256	37.514	49.598	1.00 22.63	c
MOTA	3087	CD2	LEU	D	60	41.446	38.985	51.425	1.00 24.99	C
MOTA	3088	N	ASP	D	61	38.005	35.386	51.224	1.00 26.63	N
ATOM	3089	CA	ASP	D	61	37.705	34.524	52.363	1.00 25.59	C
ATOM	3090	C	ASP		61	37.428	33.112	51.872	1.00 22.43	. с
ATOM	3091	ō.	ASP		61	37.373	32.161	52.646	1.00 23.39	0
	3092	СВ	ASP		61	36.497	35.146	53.120	1.00 33.33	c
MOTA			ASP		61	35.889	34.390	54.325	1.00 40.36	С
ATOM	3093	CG			61	36.478	34.403	55.424	1.00 44.78	. 0
MOTA	3094		ASP				33.794	54.169	1.00 43.10	ŏ
MOTA	3095		ASP		61	34.807				N
ATOM	3096	N	LYS		62	37.289	32.899	50.575	1.00 17.94	
ATOM	3097	CA	LYS		62	37.048	31.574	50.058	1.00 13.29	· c
MOTA	3098	C	LYS	D	62	38.344	30.855	49.757	1.00 12.68	C
MOTA	3099	0	LYS	D	62	38.308	29.692	49.387	1.00 15.69	. 0
MOTA	3100	CB	LYS	D	62	36.292	31.712	48.771	1.00 13.99	c
ATOM	3101	CG	LYS	D	62	35.036	32.517	48.890	1.00 16.25	. С
ATOM	3102	CD	LYS		62	34.086	31.871	49.870	1.00 21.21	С
MOTA	3103	CE	LYS		62	32.997	32.898	50.166	1.00 23.50	С
	3104	NZ	LYS		62	32.319	33.267	48.937	1.00 30.45	. N
MOTA		N	PHE		63	39.504	31.504	49.885	1.00 12.18	N
MOTA	3105		PHE		63	40.797	30.938	49.594	1.00 13.29	. С
MOTA	3106	CA				41.659	30.965	50.837	1.00 16.38	č
ATOM	3107	C	PHE		63		31.701	51.798	1.00 16.40	ŏ
MOTA	3108	0_	PHE		63	41.401	31.773	48.552	1.00 11.01	č
MOTA	3109	CB	PHE		63	41.495			1.00 13.33	č
MOTA	3110	CC	PHE		63	40.776	31.641	47.229		č
MOTA	3111	CD1	PHE		63	40.917	30.478	46.491	1.00 11.26	č
MOTA	3112	CD2			63	39.904	32.635	46.823	1.00 13.18	ç
MOTA	3113	CE1	PHE	D	63	40.140	30.299	45.367	1.00 9.84	C
MOTA	3114	CE2	PHE	D	63	39.126	32.436	45.690	1.00 13.90	C
ATOM	3115	CZ	PHE	D	63	39.251	31.264	44.964	1.00 10.53	· C
ATOM	3116	N	SER		64	42.725	30.164	50.773	1.00 16.82	N
MOTA	3117	CA	SER		64	43.703	30.208	51.822	1.00 16.74	. ·C
	3118	Č.	SER		64	45.123	30.230	51.275	1.00 16.89	C
MOTA		-	SER		64	45.377	29.918	50.120	1.00 16.97	ō
MOTA	3119	o CE				43.430	29.068	52.849	1.00 18.93	č
MOTA	3120	CB	SER		64	44.080	27.847	52.508	1.00 28.24	ğ
MOTA	3121	OG	SER		64				1.00 26.24	N
MOTA	3122	N	ASN		65	46.080	30:661	52.095		
MOTA	3123	CA	asn		65	47.479	30.684	51.746	1.00 15.98	. с
MOTA	3124	C	asn		65	48.027	29.319	51.496	1.00 15.15	· c
MOTA	3125	0	asn	D	65	47.472	28.362	52.000	1.00 17.07	0
MOTA	3126	CB	ASN	D	65	48.341	31.398	52.774	1.00 17.48	c
ATOM	3127	CG	ASN		65	48.232	32.904	52.684	1.00 19.71	C
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MOTA	3128	OD1	ASN	D	65	48.695	33.551	51.752	1.00 25.73	0
ATOM	3129		ASN		65	47.621	33.560	53.640	1.00 22.21	N
ATOM	3130	N	ILE		66	49.077	29.253	50.672	1.00 15.61	N
		CA	ILE		66	49.778	28.029	50.363	1.00 16.53	Ċ
ATOM	3131	- •	-		66	51.232	28.235	50:711	1.00 16.49	č
MOTA	3132	C	ILE				29.383	50.813		ŏ
ATOM	3133	0	ILE		66	51.633			1.00 17.79	Ž
ATOM	3134	CB	ILE		66	49.594	27.623	48.869	1.00 16.19	c
MOTA	3135		ILE		66	50.149	28.660	47.906	1.00 16.66	, <b>c</b>
MOTA	3136	CG2	ILE	D	66	48.115	27.329	48.611	1.00 12.63	C
MOTA	3137	CD1	ILE	D	66	50.081	28.086	46.478	1.00 18.10	С
MOTA		· N	SER	D	67	52.041	27.187	50.853	1.00 18.84	N
MOTA	3139	CA	SER	D	67	53.442	27.347	51.233	1.00 23.17	N C C O
MOTA	3140	C	SER		67	54.305	28.078	50.214	1.00 23.34	C
MOTA	3141	ŏ	SER		67	55.250	28.779	50.552	1.00 25.92	0
ATOM	3142	СВ	SER		67	54.084	26.006	51.543	1.00 23.00	С
		_	SER		67	53.971	25.139	50.419	1.00 30.06	0
ATOM	3143	OG			68	53.981	27.968	48.942	1.00 25.32	N
MOTA	3144	N	GLU			54.755	28.626	47.914	1.00 27.08	C
MOTA	3145	CA	GLU		68		28.401	46.597	1.00 25.08	č
ATOM	3146	C	GLU	_	68	54.045				ŏ
ATOM	3147	0	GLU		68	53.391	27.373		1.00 24.26	č
MOTA	3148	CB	GLU		68	56.190	28.061	47.921	1.00 30.32	C
MOTA	3149	CC	GLU		68	56.711	27.081	46.883	1.00 40.98	č
ATOM	3150	CD	GLU	D	68	56.009	25.744	46.778	1.00 46.80	C
MOTA	3151	OE1	GLU	D	68	55.947	24.998	47.773	1.00 50.12	0
MOTA	3152	OE2	GLU	D	68	55.508	25.470	45.676	1.00 52.68	0
MOTA	3153	N	GLY	D	69	54.121	29.389	45.723	1.00 23.65	N
MOTA	3154	CA	GLY	D ·	69	53.784	29.192	44.320	1.00 24.95	C
MOTA	3155	C	GLY		69	52.580	30.012	43.952	1.00 23.05	С
ATOM	3156	ŏ	GLY		69	52.270	30.941	44.691	1.00 24.04	0
MOTA	3157	Ň	LEU		70	51.883	29.667	42.870	1.00 22.75	N
	3158	CA	LEU		70	50.768	30.474	42.415	1.00 23.31	С
ATOM		Č	LEU		70	49.618	30.380	43.412		C
MOTA	3159	_	LEU		70	49.170	29.262	43.689	1.00 23.27	. 0
MOTA	3160	0	LEU		70	50.307	29.902	41.114	1.00 22.88	Ċ
ATOM	3161	CB				49.652	30.850	40.145	1.00 22.31	č
MOTA	3162		LEU		70	49.073	29.925	39.088	1.00 24.98	č
MOTA	3163		LEU		70		31.722	40.710	1.00 21.90	č
MOTA.	3164		LEU		70	48.576		43.918	1.00 19.05	Ŋ
MOTA	3165	N	SER		71	49.143	31.526			· c
MOTA	3166	CA	SER		71	48.132	31.561	44.977	1.00 16.36	č
MOTA	3167	C	SER		71	47.008	32.518	44.667	1.00 15.90	
MOTA	3168	0	SER	D	71	47.262	33.701	44.521	1.00 18.19	0
MOTA	3169	СВ	SER	D	71	48.747	32.015	46.298	1.00 15.26	C
MOTA	3170	OG	SER	D	71	47.822	32.217	47.360	1.00 16.34	0
MOTA	3171	N	ASN	D	72	45.757	32.053	44.598	1.00 17.24	N
MOTA	3172	CA	ASN	D	72	44.604	32.871	44.335	1.00 14.30	C
MOTA	3173	С	ASN	D	72	44.451	33.836	45.493	1.00 16.33	C
MOTA	3174	0	ASN		72	44.170	35.023	45.286	1.00 16,94	. 0
ATOM	3175	CB	ASN		72	43.399	31.967	44.208	1.00 14.51	С
ATOM	3176	CG	ASN		72	43.311	31.102	42.953	1.00 14.36	C
			ASN		72	44.170	31.156	42.089	1.00 15.41	0
ATOM	3177				72	42.291	30.261	42.779	1.00 14.10	· N
MOTA	3178		ASN TYR	ב	73	44.711	33.348	46.720	1.00 16.70	N
MOTA	3179	N			73	44.709	34.222	47.893	1.00 17.86	Ċ
MOTA	3180	CA	TYR			45.580	35.466	47.698	1.00 17.22	č
ATOM	3181	Č.	TYR		73	45.047	36.559	47.813	1.00 19.51	ŏ
MOTA	3182	0	TYR		73			47.013	1.00 15.83	Č
MOTA	3183	CB	TYR		73	45.171	33.479			c
MOTA	3184	CG	TYR		73	44.962	34.331	50.421	1.00 11.11	
MOTA	3185	CD1	TYR		73	43.755	34.297	51.064	1.00 13.95	C
MOTA	3186	CD2	TYR	D	73	45.932	35.212	50.823	1.00 14.63	C
MOTA	3187	CE1	TYR	D	73	43.474	35.184	52.080	1.00 15.34	C
							•			

MOTA	3188	CE2	TYR	D	73	45.663	36.140	51.814	1.00 15.34	С
MOTA	3189	CZ	TYR	D	73	44.430	36.108	52.407	1.00 16.30	. С
MOTA	3190	OH	TYR		73	44.123	37.051	53.334	1.00 22.01	0
ATOM	3191	N	SER		74	46.888	35.357	47.402	1.00 18.57	N
ATOM	3192	CA	SER		74	47.786	36.498	47.221	1.00 17.90	С
ATOM	3193	C	SER		74	47.420	37.417	46.121	1.00 16.44	С
ATOM	3194	ŏ	SER		74	47.636	38.600	46.291	1.00 18.01	Õ
ATOM	3195	ČВ	SER		74	49.180	36.125	46.829	1.00 18.93	Č
	3196	OG	SER		74	49.623	35.176	47.760	1.00 25.77	Ŏ
ATOM			ILE		75	46.890	36.866	45.027	1.00 16.68	·N
ATOM	3197	N CA	ILE		75	46.470	37.645	43.893	1.00 16.88	· ĉ
ATOM	3198		ILE		75	45.256	38.493	44.244	1.00 16.78	č
MOTA	3199	C			75 75	45.237	39.693	43.968	1.00 20.42	ŏ
MOTA	3200	0	ILE		75 75	46.184	36.709	42.711	1.00 16.41	. č
MOTA	3201	CB	ILE					42.295	1.00 16.78	č
MOTA	3202		ILB		75 75	47.380	35.898 37.615		A Company of the Comp	C
MOTA	3203	CG2	ILE		75 75	45.861		41.567	1.00 16.46	õ
MOTA	3204		ILE		75	47.146	34.967	41.097	1.00 19.66	
MOTA	3205	N	ILE		76	44.230	37.936	44.901	1.00 18.21	И
MOTA	3206	CA	ILE		76	43.023	38.678	45.220	1.00 15.41	c
MOTA	3207	C	ILE		76	43.340	39.669	46.286	1.00 17.60	C
MOTA	3208	0	ILE		76	42.870	40.796	46.215	1.00 20.17	0
MOTA	3209	CB	ILE	D	76	41.941	37.743	45.711	1.00 16.42	C
MOTA	3210	CG1	ILE	D	76	41.615		44.588	1.00 14.92	C
MOTA	3211	CG2	ILE	D	76	40.696	38.481	46.200	1.00 11.21	С
MOTA	3212	CD1	ILE	D	76	40.745	35.613	45.055	1.00 13.69	, C
MOTA	3213	N	ASP	D	77	44.162	39.271	47.248	1.00 19.35	N
MOTA	3214	CA	AŚP	D	77	44.561	40.150	48.321	1.00 21.77	С
MOTA	3215	С	ASP	D	77	45.248	41.436	47.858	1.00 22.56	C
ATOM	3216	0	ASP	D	77	44.924	42.515	48.376	1.00 22.07	0
MOTA	3217	CB	ASP		77 .	45.433	39.385	49.282	1.00 24.17	С
ATOM	3218	CG	ASP		77	45.713	40.148	50.571	1.00 28.55	С
ATOM	3219		ASP		77	44.842	40.889	51.067	1.00 33.63	0
MOTA	3220		ASP		77	46.822	39.988	51.073	1.00 28.53	0
ATOM	3221	N	LYS		78	46.139	41.344	46.851	1.00 22.27	N
ATOM	3222	CA	LYS		78	46.692	42.534	46.222	1.00 21.32	C
ATOM	3223	Ç.	LYS		78	45.654	43.318	45.471	1.00 19.56	С
ATOM	3224	ŏ	LYS	-	78	45.786	44.524	45.417	1.00 22.75	
	3225	СВ	LYS		78	47.807	42.270	45.230	1.00 23.87	С
ATOM	3226	CG	LYS		78	49.036	41.600	45.795	1.00 30.71	^ C
MOTA	3227	CD	LYS		78	50.269	41.917	44.947	1.00 37.30	C
ATOM	3228	CE	LYS		78	51.317	40.799	45.004	1.00 40.34	Ċ
MOTA		NZ	LYS		78	50.843	39.671	44.214	1.00 44.85	N
ATOM	3229		LEU		79	44.634	42.714	44.882	1.00 18.00	N
ATOM	3230	N	LEU		79	43.570	43.462	44.247	1.00 16.42	Ċ
MOTA	3231	CA				42.696	44.124	45.273	1.00 18.98	Č
MOTA	3232	Ç	LEU		79	42.215	45.218	45.035	1.00 21.86	õ
MOTA	3233	0	LEU		79	42.213	42.543	43.451		č
MOTA	3234	CB	LEU		79		41.746	42.358	1.00 13.81	č
MOTA	3235	CG	LEU		79	43.383	,			č
MOTA	3236	CD1	LEU	D	79	42.294	41.091	41.522	1.00 14.16	č
MOTA	3237	CD2	LEU	D	79	44.240	42.627	41.462	1.00 11.49	
MOTA	3238	N	VAL		80		43.524	46.430		N
MOTA	3239	CA	VAL		80.	41.624	44.124	47.462	1.00 20.11	C
MOTA	3240	С	VAL		80	42.369	45.343	47.920	1.00 21.57	C
MOTA	3241	0	VAL	D	80	41.759	46.389	47.987	1.00 25.14	0
ATOM	3242	CB	VAL		80	41.480	43.093	48.603	1.00 22.94	C
MOTA	3243		VAL		80	40.920	43.647	49.896	1.00 25.85	. <u>C</u>
MOTA	3244		VAL		80	40.511	42.003	48.246	1.00 20.39	. C
MOTA	3245	N	ASN		81	43.678	45.313	48.167	1.00 24.08	N
ATOM	3246	CA	ASN	D	81	44.375	46.498	48.626	1.00 23.59	C
ATOM	3247	C	ASN	D	81	44.363	47.632	47.620	1.00 26.17	, C

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ATOM	3248	0	ASN		81	44.334	48.756	48.114	1.00	28.26	•	0
MOTA	3249	CB	asn		81	45.761	46.180	49.097	1.00	21.14		C
MOTA	3250	CG	asn		81	45.684	45.257	50.278	1.00	23.73	•	C
MOTA	3251	OD1	asn	D	81	44.871	45.422	51.175	1.00	31.16	4	0
MOTA	3252	ND2	asn	D	81	46.490	44.231	50.357	1.00	25.26	1	N
ATOM	3253	N	ILE	D	82	44.340	47.414	46.280	1.00	25.02	]	N
MOTA	3254	CA	ILE	D	82	44.088	48.469	45.268	1.00	25.82		C
MOTA	3255	С	ILE	D	82 .	42.671	49.103	45.287	1.00	25.89		C
MOTA	3256	0	ILE	D	82	42.512.	50.323	45.196	1.00	25.87		0
MOTA	3257	CB	ILE	D	82	44.444	48.002	43.847	1.00	23.39		Ċ
MOTA	3258 -	CG1	ILE	D	82	45.885	47.557	43.751	1.00	25.26		C
ATOM	3259	CG2	ILE	D	82	44.317	49.150	42.894	1.00	23.94		C
ATOM	3260	CD1	ILE	D	82	46.185	46.717	42.500	1.00	24.24		C
ATOM	3261	N	VAL	D	83	41.595	48.324	45.443	1.00	27.50		N
ATOM	3262	CÀ	VAL	D	83	40.240	48.859	45.486	1.00	27.69		C
MOTA	3263	C	VAL	D	83	40.017	49.556	46.841	1.00	30.42		C
MOTA	3264	0	VAL	D	83	39.190	50.454	46.938	1.00	29.44		0
MOTA	3265	CB	VAL	D	83	39.230	47.758	45.201	1.00	23.07		C
ATOM	3266	CG1	VAL	D	83	37.910	48.384	44.868	1.00	24.95		C
MOTA	3267	CG2	VAL	D	83	39.634	47.000	43.979	1.00	23.59		C
MOTA	3268	N	ASP	D	84	40.772	49.192	47.892	1.00	32.89		N
MOTA	3269	CA	ASP	D	84	40.753	49.840	49.206	1.00	35.85		C
ATOM	3270	С	ASP	D	84	41.361	51.238	49.084	1.00	35.75		C
MOTA	3271	0	ASP	D	84	40.779	52.212	49.557	1.00	35.62		0
ATOM	3272	CB	ASP	D	84	41.531	49.029	50.294	1.00	39.03		C
ATOM	3273	CG	ASP	D	84	40.827	48.006	51.221	1.00	41.67		C
ATOM	3274	OD1	ASP	D	84	39.593	47.858	51.172	1.00	43.23		0
ATOM	3275	OD2	ASP	D	84	41.536	47.352	52.008	1.00	43.54		0
ATOM	3276	N	ASP	D	85	42.500	51.382	48.417		35.24		N
MOTA	3277	·CA	ASP	D	85	43.039	52.689	48.095	1.00	39.54		C
ATOM	3278	C	ASP	D	85	42.055	53.620	47.372		40.48		C
MOTA	3279	0	ASP	D	85	41.712	54.706	47.853	1.00	42.05		0
ATOM	3280	CB	ASP	D	85	44.343	52.540	47.287	1.00	41.18		С
MOTA	3281	CG	ASP	D	85	45.534	51.871	48.001	1.00	43.42		C
ATOM	3282	OD1	ASP	D	85	45.537	51.723	49.243	1.00	41.35		0
MOTA	3283	OD2	ASP	D	85	46.465	51.488	47.276	1.00	42.78		0
MOTA	3284	N	LEU	D	86	41.518	53.157	46.238	1.00	41.90		N
MOTA	3285	CA	LEU	D	86	40.526	.53.903	45.456	1.00	39.57	•	C
MOTA	3286	C	LEU	D	86	39.249	54.172	46.203	1.00	38.81		C
MOTA	3287	0	LEU	D	86	38.614	55.176	45.924		40.16		0
MOTA	3288	CB	LEU	D	86	40.142	53.164	44.191		36.00		C
MOTA	3289	CG	LEU		,86	41.234	52.732	43.251		34.91		C
MOTA	3290		LEU		86	40.618	52.075	42.047		33.95		C
ATOM	3291		LEU		86	42.096	53.907	42.858		32.40		C
ATOM	3292	N	VAL		87	38.840	53.303	47.125		40.82		N
MOTA	3293	CA	VAL		87	37.680	53.589	47.958		44.87		c
MOTA	3294	С	VAL		87	37.965	54.754	48.933		47.95		C
MOTA	3295	0	VAL		87	37.085	55.580	49.176		49.04		0
MOTA	3296	CB		D	87	37.191	52.311	48.682		42.48		Ç
MOTA	3297		VAL		87	36.094	52.685	49.647		43.30		C
MOTA	3298		VAL		87 ·		51.285	47.749		39.59		C
MOTA	3299	N	GLU		88	39.185	54.862		1.00			N
MOTA	3300	CA	GLU		88	39.548	55.935	50.387		55.88		c
MOTA	3301	C,	GLU		88	39.807	57.235	49.672		57.32		C
MOTA	3302	0	GLU		88	39.717	58.303	50.291		59.78		0
MOTA	3303	CB	GLU		88	40.786	55.627	51.225		57.84		Ċ
MOTA	3304	CG	GLU		88	40.534	54.935	52.572		61.46		C
MOTA	3305	CD	GLU		88	41.737	54.106	53.056		65.66		Ç
MOTA	3306	OE1	GLU	D	88	42.872	54.610	53.000		65.91		ŏ
MOTA	3307	OE2	GLU	D	88	41.543	52.947	53.479	1.00	68.20		0

MOTA	3308	N	CYS		89	40.147	57.130	48.382		57.61		N
MOTA	3309	CA	CYS		89	40.273	58.307	47.528	1.00	58.46		С
MOTA	3310	. C	CYS		89	38.895	58.970	47.344	1.00	58.39		C
MOTA	3311	0	CYS		89	38.791	60.197	47.378	1.00	58.21		0
ATOM	3312	CB	CYS		89	40.931	57.880	46.221		57.54		С
MOTA	3313	SG	CYS		89	41.341	59.181	45.038		58.90		S
MOTA	3314	N	VAL		90	37.809	58.179	47.271		58.70		N
MOTA	3315	CA	VAL		90	36.453	58.684	47.150		59.63		C.
MOTA	3316	C	VAL		90	35.871	59.210	48.484		61.73		C
ATOM	3317	0_	VAL		90	34.680	59.004	48.763		62.80		0
MOTA	3318	CB	VAL		90	35.602	57.544			58.55		C
MOTA	3319	N	SER			20.665	52.244	45.909		56.19		N
MOTA	3320	CA	SER			21.629	51.156	45.958		53.75		C
ATOM	3321	C	SER			21.476	50.204	44.750		51.69		C
ATOM	3322	0	SER			20.519	50.365	43.954		53.93		0
ATOM	3323	CB	SER			21.454	50.421 49.503	47.297		55.38		C
ATOM	3324	OG	SER			22.506	49.277	47.610 44.526		56.37		0
ATOM	3325	N			105	22.446 22.366	48.292	43.470		45.68 41.30	٠.	C .
MOTA	3326	CA	PRO		105	22.138	46.887	43.955		37.99		Č
MOTA	3327	C			105	22.529	46,478	45.049		38.93		ŏ
MOTA	3328	O CB			105	23.661	48.481	42.741		40.55		Č
MOTA	3329	CG			105	24.631	48.664	43.862		42.00		č
MOTA	3330 3331	CD	PRO	_		23.856	49.476	44.863		42.72		č
MOTA	3332	N	GLU	_		21.459	46.177	43.075		33.70		N
MOTA MOTA	3333	CA	GLU			20.971	44.880	43.417		32.02		Ĉ
ATOM	3334	Č	GLU	-	-	21.976	43.812	43.085		32.36		Č
ATOM	3335	ŏ	GLU			22.715	43.942	42.111		32.37		Ó
ATOM	3336	ČВ			106	19.734		42.624		32.57		C
ATOM	3337	N			107	22.006	42.732	43.886		32.45		N
MOTA	3338	ĊA			107	22.855	41.549	43.686	1.00	31.86		C
ATOM	3339	C			107	22.724	40.845	42.340	1.00	29.45		C
ATOM	3340	Ō	PRO	D	107	21.623	40.491	41.911	1.00	29.62		0
ATOM.	3341	CB	PRO	D	107	22.403	40.614	44.801		32.83		С
MOTA	3342	CG	PRO	D	107	22.040	41.574	45.904		34.59		C
MOTA	3343	CD	PRO	D	107	21.299	42.658	45.165		31.98		C
MOTA	3344	N	ARG	D	108	23.893	40.580	41.745		27.04		N
MOTA	3345	CA			108	23.966	39.882	40.479		24.37		C
MOTA	3346	С			108	25.090	38.834	40.442		22.83		C
MOTA	3347	0	ARG			26.084	39.002	41.124		21.26	•	0
MOTA	3348	CB	ARG			24.090	40.981	39.431		27.20		C
MOTA	3349	CG			108	23.924	40.490	38.015		32.52		Č
MOTA	3350	œ	ARG			23.488	41.587	37.061 35.712		35.27 38.19		N
MOTA	3351	NE			108	23.846	41.160 41.872	34.627		38.97		Ċ
ATOM	3352	CZ			108	23.536 22.798	43.008	34.720		34.64		N
MOTA	3353		ARG			23.995	41.398	33.454		39.61		N
MOTA	3354		ARG			24.984	37.734	39.681		21.95		N
MOTA	3355	N			109	25.996	36.697	39.565		20.44		ċ
MOTA	3356	CA			109 109	26.760	36.756	38.265		18.72		č
MOTA	3357	C					36.725	37.175		19.50	•	ŏ
MOTA	3358	O CB			109 109	25.392	35.304	39.657		21.02		č
ATOM	3359 3360	CG			109		34.885	40.779		23.43		Č
MOTA	3361		LEU			24.170	33.404	40.648		24.08		č
MOTA	3362		LEU			24.939	35.187	42.193		25.25		Č
MOTA MOTA	3363	N N			110	28.080	36.753	38.437		17.94		N
MOTA	3364	CA			110	29.031	36.804	37.333		17.25	•	C
MOTA	3365	č			110	30.013	35.649	37.346		16.87		C
MOTA	3366	ŏ			110	30.417	35.198	38.404		19.49		0
ATOM	3367		PHE			29.848	38.070	37.366	1.00	16.08		C

MOTA	3368	CG	PHE D	110	28.993	39.305	37.265	1.00 18.38	C
ATOM	3369		PHE I	110	28.573	39.743	36.029	1.00 19.11	Ċ
ATOM	3370		PHE I		28.633	39.977	38.408	1.00 16.78	· c
ATOM	3371	-	PHE D		27.802	40.874	35.946	1.00 16.73	č
	3372		PHE D		27.850	41.103	38.321	1.00 18.17	C
MOTA			PHE D		27.445	41.553	37.081	1.00 21.53	č
ATOM	3373	CZ					36.216		
ATOM	3374	N	THR I		30.425	35.107		1.00 15.24	N
MOTA	3375	CA	THR I		31,539	34.192	36.176	1.00 14.72	C
MOTA	3376	С	THR I		32.811	34.994	36.443	1.00 12.40	· C
MOTA	3377	.0	THR I		32.752	36.218	36.400	1.00 13.27	Ó
MOTA	3378	CB	THR I	111	31.579	33.435	34.828	1.00 17.12	С
ATOM	3379	<b>OG1</b>	THR D	) 111	31.630	34.415	33.809	1.00 17.68	0
ATOM	3380	CG2	THR D	111	30.451	32.446	34.621	1.00 14.81	С
ATOM	3381	N	PRO I	112	33.974	34.412	36.757	1.00 12.31	N
MOTA	3382	CA	PRO I	112	35.219	35.126	36.935	1.00 11.10	С
MOTA	3383	C	PRO I	112	35.594	36.046	35.783	1.00 14.02	С
ATOM	3384	ŏ	PRO D		35.884	37.215	36.011	1.00 13.17	0
ATOM	3385	СВ	PRO D		36.189	33.965	37.074	1.00 9.39	Ċ
	3386	CG	PRO D		35.413	32.952		1.00 7.72	č
MOTA			PRO D		34.151	32.972		1.00 11.01	č
ATOM	3387	CD			35.611	35.572	34.517	1.00 16.22	Ŋ
MOTA	3388	N	GLU I				33.395		Č
MOTA	3389	CA	GLU D		35.905	36.456		1.00 16.17	<u> </u>
MOTA	3390	C	GLU I		35.026	37.679	33.272	1.00 13.99	C
MOTA	3391	0	GLU I		35.508	38.761	32.985	1.00 15.09	0
ATOM	3392	ÇB	GLU I		35.913	35.703	32.092	1.00 17.91	· c
ATOM	3393	CG	GLU I		34.636	34.985	31.713	1.00 19.43	C
ATOM	3394	CD	GLU I	113	34.621	34.539	30.277	1.00 22.34	C
MOTA	3395	OE1	GLU I	113	35.652	34.599	29.608	1.00 23.91	0
ATOM	3396	OE2	GLU I	). 113	33.558	34.139	29.810	1.00 24.64	0
ATOM	3397	N	GLU I	114	33.747	37.539	33.559	1.00 14.85	N
ATOM	3398	CA	GLU I	114	32.837	38.649	33.596	1.00 15.81	С
ATOM	3399	C	GLU I		33.063	39.567	34.769	1.00 15.50	С
ATOM	3400	ō	GLU I		33.085	40.783	34.557	1.00 15.87	0
ATOM	3401	CB	GLU I		31.402	38.208	33.707	1.00 19.13	C
MOTA	3402	œ	GLU D		30.883	37.422	32.539	1.00 21.49	, c
	3403	CD	GLU I		29.605	36.642	32.816	1.00 24.09	C
MOTA			GLU I		29.017	36.697	33.897	1.00 26.51	ŏ
MOTA	3404		GLU I		29.185	35.937	31.907	1.00 29.29	. 0
ATOM	3405				33.204	39.041	35.990	1.00 13.99	N
MOTA	3406	N	PHE I			39.892	37.125	1.00 12.83	ë
MOTA	3407	CA	PHE I		33.464			1.00 13.21	Č
ATOM	3408	C	PHE I		34.753	40.667	36.905		Õ
MOTA	3409	0_	PHE I		34.827	41.855	37.193	1.00 14.99	Š
MOTA	3410	CB	PHE I		33.650	39.018	38.359	1.00 10.89	C C
MOTA	3411	CG	PHE I		33.982	39.867	39.569	1.00 11.83	Ċ
MOTA	3412		PHE I		32.951	40.361	40.344	1.00 12.60	c
MOTA	3413	CD2	PHE D	115	35.296	40.133	39.917	1.00 14.96	c
MOTA	3414	CE1	PHE I	115	33.251	41.093	41.480	1.00 12.59	C
ATOM	3415	CE2	PHE I	115	35.605	40.892	41.033	1.00 13.04	C
ATOM	3416	CZ	PHE I	115	34.560	41.373	41.810	1.00 14.57	С
ATOM	3417	N	PHE I	116	35.833	40.025	36.477	1.00 15.07	N
MOTA	3418	CA		116	37.102	40.718	36.297	1.00 13.94	C
ATOM	3419	Č.	PHE I		37.181	41.563	35.036	1.00 15.79	С
MOTA	3420	ō	PHE D		38.014	42.455	34.965	1.00 16.79	0
	3421	СB	PHE I		38.273	39.775	36.373	1.00 13.55	Ċ
MOTA		CG	PHE I		38.548	39.261	37.759	1.00 10.27	č
ATOM	3422		PHE I		39.105	40.100	38.692	1.00 12.82	Č
MOTA	3423				38.143	37.990	38.132	1.00 11.47	Č
MOTA	3424	CDZ	PHE I	) 116 ) TTO	39.169	39.689	40.025	1.00 14.46	č
MOTA	3425	CEL	PHE I	7 110			39.457	1.00 10.67	Č
ATOM	3426		PHE I		38.216	37.584		1.00 10.67	č
MOTA	3427	CZ	PHE I	) 116	38.709	38.439	40.407	1.00 11.00	Ç

MOTA	3428	N	ARG	D	117	36.361	41.405	34.011	1.00	16.57	1	
MOTA	3429	CA	ARG	D	117	36.293	42.421	32.990	1.00	20.64	•	3
ATOM		·C	ARG			35.668	43.700	33.548	1.00	22.51	(	-
	3431	ŏ	ARG			36.089	44.803	33.174		23.89		
ATOM						35.446	41.879	31.860				Č
MOTA	3432	CB	ARG		-					26.52		=
MOTA	3433	CG	ARG			35.518	42.709	30.598		31.58	,	C
MOTA	3434	CD	ARG			34.496	42.146	29.640		35.05		С
MOTA	3435	NE	ARG	D	117	34.394	43.021	28.483	1.00	38.58		V
MOTA	3436	CZ	ARG	D	117	33.828	42.656	27.326	1.00	37.56	(	C
MOTA	3437		ARG			. 33.169	41.506	27.170	1.00	33.95	1	
	3438		ARG			34.002	43.473	26.286		37.95	i	
MOTA			ILE			34.656	43.594	34.445		22.03		N
MOTA	3439	N					44.753	35.121		19.63		C
MOTA	3440	CA	ILE			34.052						c
MOTA	3441	С	ILE			35.047	45.368	36.086		19.88		
MOTA	3442	0	ILE	D	118	35.183	46.586	36.085		23.21	•	0
MOTA	3443	·CB	ILE	D	118	32.781	44.357	35.874	1.00	20.68	•	C
ATOM	3444	CG1	ILE	D	118	31.691	43.843	34.951	1.00	19.48	•	C
ATOM	3445		ILE			32.255	45.562	36.619	1.00	20.52		C
ATOM	3446		ILE			30.567	43.143	35.727	1.00	18.63	•	С
ATOM	3447	N	PHE			35.741	44.577	36.908		16.07	3	N
			PHE			36.853	45.059	37.683		15.72		C
MOTA	3448 -	CA				37.853	45.894	36.880		17.75		č
MOTA	3449	C	PHE									ŏ
MOTA	3450	0	PHE			38.208	47.006	37.267		20.22		
MOTA	3451	CB	PHE			37.545	43.866	38.359		12.02	,	Č
ATOM	3452	CG	PHE			38.822	44.222	39.100		13.89		C
ATOM	3453	CD1	PHE	D	119	38.760	44.766	40.389		14.47	•	C
MOTA	3454	CD2	PHE	D	119	40.057	44.030	38.492		10.48		C
ATOM	3455	CE1	PHE	D	119	39.944	45.148	41.032	1.00	13.14		C
MOTA	3456	CE2	PHE			41.219	44.387	39.149	1.00	10.95		C
ATOM	3457	CZ	PHB			41.163	44.965	40.405	1.00	10.47		C
			ASN			38.349	45.343	35.779		18.18		
ATOM	3458	N	ASN			39.325	45.994	34.955		18.15		C
MOTA	3459	CA					47.263	34.387		20.79		č
MOTA	3460	C	ASN			38.709						ŏ
ATOM	3461	0	asn			39.348	48.303	34.408		22.36		ž
MOTA	3462	CB	asn			39.805	45.078	33.812		18.05		C
MOTA	3463	CG	asn	D	120	40.849	44.026	34.137		17.71		C
MOTA	3464	OD1	asn	D	120	41.770	44.210	34.918		21.36		0
MOTA	3465	ND2	ASN	D	120	40.765	42.860	33.538	1.00	17.03		N
MOTA	3466	N	ARG	D	121	37.463	47.256	33.941	1.00	22.71		N
ATOM	3467	CA	ARG			36.824	48.438	33.431	1.00	24.59		Ç
ATOM	3468	c	ARG			36.703	49.523	34.494	1.00	27.41		C
		ō	ARG			36.971	50.683	34.192		30.49		0
MOTA	3469					35.468	47.993	32.953		26.42		Ċ
MOTA	3470	CB	ARG				49.156	32.549		33.46		č
MOTA	3471	CG	ARG			34.608				37.32		Č
MOTA	3472	CD	ARG			34.760	49.641	31.105				
ATOM	3473	NE	ARG			34.149	50.962	30.882		39.99		N
MOTA	3474	CZ	ARG	D	121	32.836	51.217	31.020		39.01		C
MOTA	3475	NH1	ARG	D	121	31.955	50.306	31.426		37.27		N
ATOM	3476		ARG			32.392	52.439	30.747	1.00	40.47		N
MOTA	3477	N	SER			36.364	49.186	35.754	1.00	28.07		N
	3478	CA	SER				50.153	36.820	1.00	24.66		C
MOTA			SER			37.455	50.758	37.250		25.38		C
ATOM	3479	C				37.536	51.971	37.401		24.85	-	ō
MOTA	3480	0_	SER							20.76		č
ATOM	3481	CB	SER			35.452	49.505	37.983				ŏ
ATOM	3482	OG	SER			34.236	48.886	37.591		19.10		
MOTA	3483	N	ILE			38.513	49.954	37.389		28.58	•	N
MOTA	3484	CA	ILE			39.853	50.468	37.718		31.03		C
MOTA	3485	С	ILE	D	123	40.396	51.464	36.684		33.54		C
ATOM	3486	ŏ	ILE			40.998	52.471	37.040		33.54		0
ATOM	3487	СВ	ILE			40.821	49.267	38.041	1.00	31.69		C

ATOM	3488	CG1	ILE	D 123	40.899	48.877	39.544	1.00 30.91	С
ATOM	3489	CG2	ILE	D 123	42.262	49.504	37.583	1.00 31.27	С
ATOM	3490			D 123	39.609	48.826	40.377	1.00 31.19	С
ATOM	3491	N		D 124	40.123	51.244	35.395	1.00 36.80	. N
ATOM	3492	CA		D 124	40.562	52.125	34.333	1.00 38.72	c
ATOM	3493	C		D 124	39.846	53.455	34.353	1.00 39.18	C
ATOM	3494	ŏ		D 124	40.487	54.491	34.186	1.00 39.94	ŏ
ATOM	3495	СВ		D 124	40.383	51.461	32.981	1.00 42.50	Č
ATOM	3496	CG		D 124	40.847	52.342	31.828	1.00 47.69	· č
	3497			D 124	42.058	52.554	31.646	1.00 50.62	ŏ
ATOM	3498	. 001	VED	D 124	39.972	52.837	31.116	1.00 51.18	ŏ
MOTA MOTA	3499	N		D 125	38.538	53.440	34.590	1.00 39.43	N
		CA		D 125	37.731	54.649	34.586	1.00 41.04	ċ
MOTA	3500 3501	C		D 125	38.028	55.640	35.712	1.00 44.24	. č
MOTA				D 125	37.580	56.792	35.729	1.00 46.63	0
ATOM	3502	O CB		D 125	36.289	54.232	34.688	1.00 37.89	Č
MOTA	3503	CB		D 126	38.795	55.189	36.693	1.00 47.55	Ň
MOTA	3504	N			39.342	56.063	37.709	1.00 52.08	Ċ
MOTA	3505	CA		D 126	40.409	57.058	37.208	1.00 55.06	č
MOTA	3506	C		D 126		58.167	37.751	1.00 57.33	ŏ
MOTA	3507	0_		D 126	40.531	•	38.838	1.00 51.90	č.
MOTA	3508	CB		D 126	39.877			1.00 50.92	0000000
MOTA	3509	CG		D 126	39.154	55.489	40.124		č
MOTA	3510			D 126	39.155	56.780	40.620	1.00 52.88 1.00 50.11	č
MOTA	3511	CD2	PHE	D 126	38.437	54.505	40.745	1.00 54.34	č
MOTA	3512	CB1	PHE	D 126	38.390	57.105	41.721		Č
MOTA	3513			D 126	37.688	54.827		1.00 52.08	Č
MOTA	3514	CZ		D 126	37.653	56.117	42.336	1.00 53.64	N
MOTA	3515	N		D 127	41.187	56.667	36.177	1.00 56.75	002000000000000000000000000000000000000
MOTA	3516	CA		D. 127	42.055	57.566	35.420	1.00 57.29	c
MOTA	3517	Ç		D 127	41.257	58.229	34.273	1.00 58.91	ŏ
MOTA	3518	0		D 127	41.376	57.826	33.098	1.00 60.03	Č
MOTA	3519	CB		D 127	43.225	56.735	34.882	1.00 56.61	
TER	3521			D 127					<b>63</b>
HETATM	3522	CA	CA	1021	34.563	32.796	27.927	1.00 28.47	CA
HETATM			CA	1022	29.874	41.216	51.866	1.00 42.93	CA
HETATM	3524		CA	1023	46.453	8.630	31.415	1.00 34.99	CA
HETATM	3525		1PE	1	18.016	39.096	31.870	1.00 54.04	0
HETATM	3526		1PE	1	19.233	39.467	31.241	1.00 52.50	, C
HETATM	3527		1PE	1	20.344	39.764	32.285	1.00 52.87	Č
HETATM			1PE	. 1	21.455	40.455	31.657	1.00 50.81	Š
HETATM	3529		1PE	1	21.887	42.392	30.182	1.00 41.29	
HETATM	3530		1PE	1	20.971	41.737	31.213	1.00 45.45	
HETATM	3531		1PE	1	23.085	42.870	30.757	1.00 37.80	Š
HETATM	3532		1PE	1	24.265	44.731	31.534	1.00 39.00	000000000000000000000000000000000000000
HETATM			1PE		22.866	44.120	31.391	1.00 35.49	
HETATM	3534		1PE	1		43.676	31.917	1.00 39.07	. 0
HETATM	3535		1PE	1	27.396	42.942	31.976	1.00 36.51	C
HETATM	3536		1PE	1		44.138	32.222	1.00 37.63	C
HETATM	3537		1PE	1	26.797	41.817	32.602	1.00 37.94	0 C
HETATM		C16	1PE	1		40.537	32.878	1.00 44.86	
HETATM	3539		1PE	_		40.589	32.251	1.00 38.90	C
HETATM	3540	OH7	1PE	1	29.817	40.999	31.987	1.00 53.59	0
HETATM	3541	. 0	HOH	1024	36.890	32.430	27.721	1.00 24.58	. 0
HETATM	3542	0	HOH	1025	35.049	30.934	29.322	1.00 27.97	0
HETATM	3543	0	HOH	1026	31.347	42.865	52.839	1.00 31.45	0
HETATM		0	HOH	1027	44.819	10.251	32.056	1.00 31.08	. 0
HETATM		0	HOH	1028	47.508	7.695	33.365	1.00 35.15	0
HETATM		0	HOH	1029	48.695	9.256	30.957	1.00 29.22	0
HETATM		0	HOH	1105	33.704	13.935	20.986	1.00 32.21	0
HETATM			HOH	1106	22.707	17.800	13.006	1.00 51.74	0

		_			25 500	22 052	22 060		^
HETATM		0	НОН	1107	25.589	22.952	23.068	1.00 38.86	
HETATM		0	HOH	1108	20.410	17.104	15.299	1.00 29.07	0
HETATM		0	HOH	1109	26.763	8.355	29.315	1.00 19.21	Ŭ
HETATM		0	HOH	1110	25.744	13.365	30.461	1.00 32.06	0
HETATM	3553	0	HOH	1111	27.532	6.721	32.848	1.00 38.65	0
HETATM	3554	0	HOH	1112	18.245	18.266	16.629	1.00 28.39	0
HETATM	3555	0	HOH	1113	23.260	14.366	29.164	1.00 21.00	0
HETATM	3556	0	HOH	1114	15.116	22.225	22.815	1.00 19.32	0
HETATM	3557	0	HOH	1115	15.033	21.355	35.696	1.00 38.95	0
HETATM	3558	0	HOH	1116	20.651	6.306	35.427	1.00 25.08	0
HETATM	3559	0	HOH	1117	15.267	18.912	37.475	1.00 41.62	. 0
HETATM	3560	0	HOH	1118	13.693	14.872	13.312	1.00 29.91	0
HETATM		0	HOH	1119	10.257	20.310	28.411	1.00 19.75	0
HETATM		0	HOH	1120	17.034	0.246	35.599	1.00 32.81	0
HETATM		0	HOH	1121	6.051	17.933	31.202	1.00 21.61	0
HETATM		ŏ	HOH	1122	4.997	14.576	24.993	1.00 33.94	0
HETATM		Ō	HOH	1123	0.916	19.643	30.618	1.00 37.91	0
HETATM		ŏ.	HOH	1124	5.906	11.136	30.408	1.00 46.39	0
HETATM		ŏ .	нон	1125	6.559	5.604	30.508	1.00 37.39	. 0
HETATM		ŏ	нон	1126	8.033	4.439	28.006	1.00 43.67	0
HETATM		ŏ	HOH	1127	5.753	3.756	33.445	1.00 43.48	0
HETATM		ŏ	нон	1128	44.059		36.277	1.00 22.42	Ó
HETATM		ŏ	НОН	1129		31.639	20.635	1.00 57.58	0
HETATM		ŏ	нон	1130	50.215	13.426	34.211	1.00 31.74	. 0
		ŏ	нон	1132	22,455	45.496	39.519	1.00 46.16	ō
HETATM HETATM		ŏ	HOH	1133	13.246		8.764	1.00 63.66	ō
		ö	HOH	1134	34.029	21.538	54.154	1.00 48.71	ŏ
HETATM		ö	HOH	1135		41.139	53.506	1.00 25.80	Ď
HETATM			HOH	1136	14.868	40.514	7.810	1.00 46.95	ŏ
HETATM		0	HOH	1138	37.977	45.274	53.726	1.00 41.75	ŏ
HETATM		0		1139	10.511	41.610	30.508	1.00 54.06	ă
HETATM		Õ	HOH		21.928	44.651	36.769	1.00 27.65	Õ
HETATM		0	HOH	1140	9.657	38.390	31.085	1.00 36.52	ŏ
HETATM		0	HOH	1141	35.556	55.905	31.455	1.00 33.05	Õ
HETATM		0	HOH.	1142	52.337	31.433	47.975	1.00 42.15	ŏ
HETATM		0	HOH	1143		38.699	23.494	1.00 40.84	ň
HETATM		o	НОН	1144	32.915	21.469	24.434	1.00 44.50	ŏ
HETATM		0	HOH	1145	29.548	34.331	29.823	1.00 34.71	č
HETATM		0	HOH	1146	26.181	5.943	33.085	1.00 53.70	ŏ
HETATM		0	HOH	1147	39.069	24.222	52.427	1.00 40.12	č
HETATM		0	HOH	1148	34.970	24.478	48.580	1.00 40.98	. ŏ
HETATM		. 0	нон	1149	59.825	33.531	47.673	1.00 44.44	č
HETATM		0	HOH	1150	28.412		32.960	1.00 35.88	
HETATM		_	НОН	1151	25.454	33.933 59.115	53.350	1.00 51.54	ŏ
HETATM		0	HOH	1152	41.875			1.00 48.44	
HETATM		0	HOH	1153	45.977	17.661	29.654	1.00 26.92	ŏ
HETATM		0	HOH	1154	16.374	19.854	15.198 9.710	1.00 33.50	ŏ
HETATM		O	HOH	1156	2.909	45.550		1.00 33.30	Ŏ
HETATM		0	HOH	1157	27.955	42.970	52.054	1.00 42.09 1.00 31.92	ŏ
HETATM		0	HOH	1158	18.671	28.692	31.947	1.00 31.52	. 0
HETATM		0	HOH	1160	31.097	11.069	39.837	1.00 22.54	ŏ
HETATM	3599	0		1161	24.551				•
HETATM	3600	0	нон	1162	19.328	46.523	39.555	1.00 49.64	0
HETATM	3601	0	нон	1163	14.463	28.577	32.747	1.00 33.62	0
HETATM		0	HOH	1164	42.334	34.141	31.684	1.00 25.02	0
HETATM	3603	0	HOH	1165	26.640	35.518	34.853	1.00 25.40	. 0
HETATM	3604	0	HOH	1166	41.719	26.191	52.537	1.00 54.23	. 0
HETATM		0	HOH	1167	11.799	43.370	8.564	1.00 42.64	0
HETATM		0	HOH	1169	39.695	23.691	29.775	1.00 46.55	0
HETATM		0	нон	1170		-10.203	13.390	1.00 29.39	0
HETATM	3608	0	HOH	1172	15.639	30.378	9.410	1.00 35.98	0

		_			26 042	E2 E00	10 220		•
HETATM		Ŏ	нон	1173	26.042 16.723	53.508 43.317	19.228 9.437	1.00 35.35 1.00 70.54	000000000000000000000000000000000000000
HETATM		0	нон Нон	1174 1175	11.039	27.202	31.989	1.00 70.54	0
HETATM		0	HOH	1176	26.492	54.880	14.660	1.00 45.35	0
HETATM		0	HOH	1177	48.739	5.603	40.080	1.00 46.72	0
HETATM		0	нон	1179	38.452	10.611	56.410	1.00 33.18	0
HETATM		ŏ	нон		25.173	41.020	50.981	1.00 37.80	õ
HETATM		ŏ	нон	1181	26.009	21.500	26.306	1.00 37.33	č
HETATM		ŏ	нон	1185	32.901	61.354	32.974	1.00 47.36	. 0
HETATM		ŏ	нон	1186	49.199	44.404	48.616	1.00 55.72	ŏ
HETATM		. 0	нон	1187	28.401	31.064	46.621	1.00 25.46	ŏ
HETATM		ŏ	нон	1189	50.488	34.252	43.662	1.00 27.11	Õ
HETATM		ŏ	нон	1190	25.015	38.231	32.413	1.00 46.20	Ö
HETATM		ŏ	НОН	1191	13.328	45.647	6.880	1.00 50.19	ŏ
HETATM		ŏ	нон	1192	9.102	28.582		1.00 28.84	Ö
HETATM		ŏ	нон	1194	16.216	53.125	18.778	1.00 20.19	0
HETATM		ŏ	нон	1195	48.924	37.778	50.511	1.00 41.81	Ō
HETATM		ŏ	нон	1196	29.151	29.120	42.414	1.00 25.51	0
HETATM		.0	HOH	1197	10.760	56.327	24.871	1.00 25.61	0
HETATM		Ō	HOH	1198	19.161	31.540	33.429	1.00 41.50	0
HETATM		ŏ	нон	1201	31.584	19.545	39.778	1.00 41.14	0
HETATM		ŏ	HOH	1202	31.499	33.130	31.243	1.00 30.94	0
HETATM		ō	HOH	1203	33.475	31.251	32.729	1.00 30.16	0
HETATM		Ō	HOH	1204	25.323	26.251	24.066	1.00 29.38	0
HETATM		0	HOH	1205	18.912	50.780	14.345	1.00 28.88	ŏ
HETATM		0	HOH	1206	28.562	46.055	22.818	1.00 37.71	0
HETATM		0	HOH	1207	31.212	15.396	37.505	1.00 38.29	0
HETATM		0	HOH	1208	21.188	13.368	44.376	1.00 22.37	<b>O</b> .
HETATM	3637	0	HOH	1209	17.682	38.715	10.160	1.00 31.02	0
HETATM		0	HOH	1210	50.214	11.867	37.111	1.00 50.09	0
HETATM	3639	0	HOH	1212	28.768	41.646	47.276	1.00 22.25	O.
HETATM	3640	0	HOH	1214	49.993	18.233	34.806	1.00 44.55	0
HETATM	3641	0	HOH	1215	32.815	34.522	46.504	1.00 35.13	0
HETATM	3642	0	HOH	1216	39.893	28.328	41.896	1.00 12.01	Ō
HETATM	3643	0	HOH	1217	15.338	26.949	28.916	1.00 11.70	O O
HETATM	3644	0	HOH	1218	35.548	32.617	33.681	1.00 18.33	000000000000000000000000000000000000000
HETATM		0	HOH	1219	39.368	28.656	34.414	1.00 16.49	0
HETATM		0	HOH	1220	10.631	22.205	16.485	1.00 23.48	. 0
HETATM		0	HOH	1221	38.404	33.931	29.548	1.00 20.31	0
HETATM		0	HOH	1222	29.170	43.940	45.652	1.00 17.85	0
HETATM		0	нон	1223	16.493	28.977	30.383	1.00 19.55	0
HETATM		0	HOH	1224	50.201	26.750		1.00 23.76 1.00 24.48	0
HETATM		0	HOH	1225	38.642	25.017	49.298 38.648	1.00 21.90	ŏ
HETATM		0	НОН	1226	22.132	37.260 27.256	49.971	1.00 21.30	. ŏ
HETATM		0	HOH	1227	39.985	26.589	41.727	1.00 24.34	ŏ
HETATM		0	HOH	1228	46.680 45.783	30.693	47.582	1.00 25.33	ŏ
HETATM		0	HOH	1229	37.132	23.521	50.764	1.00 25.39	Õ
HETATM		0	HOH	1230	37.666	45.416	31.269	1.00 22.37	ŏ
HETATM		0	HOH	1231	12.017	34.217	29.751	1.00 24.35	ŏ
HETATM		0	HOH	1232	26.995			1.00 23.52	ŏ
HETATM	3653	0	HOH	1233 1234	26.536	25.536	28.250	1.00 29.21	ŏ
HETATM		0	HOH	1235	25.412	37.399	29.161	1.00 27.51	ŏ
HETATM		0.	HOH	1235	37.339	31.390	35.413	1.00 25.38	ŏ
HETATM		0.	нон	1237	49.870	32.179	49.678	1.00 25.92	· ŏ
HETATM		0	нон	1237	22.061	39.616	17.387	1.00 15.04	ŏ
HETATM		0	HOH	1239	14.228	24.366	29.787	1.00 22.47	ŏ
HETATM		0	НОН	1240	23.022	47.566	29.327	1.00 39.50	Õ
HETATM HETATM		ŏ	нон	1241	21.098	32.679	17.559		ŏ
HETATM		Ö	нон	1242	23.864	37.449	16.707	1.00 37.28	0
UPINIU	2000	~						· · · · ·	•

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HETATM	3669	0	HOH	1243	32.934	17.639	38.491	1.00 30.00	0
		ŏ	нон	1244	30.081	39.275	47.475	1.00 27.25	0
HETATM									ŏ
HETATM		0	HOH	1245	40.219	10.507	54.210	1.00 42.36	
HETATM	3672	0	HOH	1246	20.198	57.839	14.584	1.00 26.12	0
			НОН	1247	22.701	31.034	19.118	1.00 26.32	. 0
HETATM		0							Ŏ
HETATM	3674	0	HOH	1248	50.529	25.000	51.117	1.00 16.36	
HETATM	3675	0	HOH	1249	27.308	27.122	38.575	1.00 29.98	0
			нон	1250	41.664	46.630	31.018	1.00 29.42	0
HETATM		0							ŏ
HETATM	3677	0	нон	1251	27.841	34.202	44.699	1.00 37.98	
HETATM		0	HOH	1252	28.946	26.204	44.341	1.00 51.94	0
					26.643	43.795	23.560	1.00 23.03	. 0
HETATM		0	нон	1253					
HETATM	3680	0	нон	1254	52.894	25.886	44.095	1.00 33.52	0
HETATM		0	HOH	1255	42.339	26.613	55.952	1.00 36.97	0
					48.804	2.432	50.876	1.00 36.59	. 0
HETATM	3682	0	HOH	1256					Ŏ
HETATM	3683	0	нон	1257	51.244	18.531	40.805	1.00 33.51	
HETATM		Ó	нон	1260	49.903	39.828	48.137	1.00 44.77	0
		-			45.720	4.638	32.384	1.00 54.41	0
HETATM	3685	0	HOH	1261					ŏ
<b>HETATM</b>	3686	0	нон	1262	32.871	29.567	30.088	1.00 39.72	
		0 .	нон	1263	23.890	51.918	23.175	1.00 37.61	0
HETATM					13.550	26.049	31.905	1.00 33.45	0
HETATM	3688	0	HOH	1264					
HETATM	3689	0	нон	1266	10.689	31.547	31.432	1.00 47.94	. 0
		ŏ	нон	1269	26.086	-7.425	31.507	1.00 39.58	0
HETATM					22.022		22.853	1.00 37.03	0
HETATM	3691	0	нон	1271					
HETATM	3692	0	HOH	1274	28.901	24.308	41.027	1.00 41.39	0
		ŏ	нон	1276	45.609	-2.697	31.603	1.00 49.62	0
HETATM						26.708	34.475	1.00 36.02	0
HETATM	3694	0	HOH	1277	9.649				
HETATM	3695	0	HOH	1279	21.970	8.818	36.303	1.00 45.69	0
		ŏ	HOH	1280	7.956	56.039	27.031	1.00 55.41	0
HETATM					15.342	17.025	12.461	1.00 55.13	0
HETATM	3697	0	HOH	1281					
HETATM	3698	0	HOH	1284	12.862	44.437	3.810	1.00 49.95	0
TIOMS TO	3600		HOH	1286	34.675	64.010	47.159	1.00 47.97	0
HETATM		0					30.681	1.00 29.94	0
HETATM	3700	0	HOH	1287	41.049	11.857			
HETATM	3701	0	HOH	1288	34.457	19.302	55.855	1.00 47.88	0
			нон	1289	28.546	31.433	28.564	1.00 47.71	0
HETATM		0				60.645	39.548	1.00 52.03	0
HETATM	3703	0	HOH	1291	33.220				
HETATM	3704	0	HOH	1292	30.910	54.312	27.471	1.00 48.06	0
		ŏ	HOH	1293	23.058	27.656	32.358	1.00 45.02	0
HETATM						27.865	25.772	1.00 37.73	0
HETATM	3706	0	HOH	1294	28.377		-		ŏ
HETATM	3707	0	HOH	1295	17.851	13.033	47.051	1.00 31.43	ū
		Ŏ	HOH	1297	22.435	24.151	33.420	1.00 39.38	0
HETATM		-		-		20.833	37.423	1.00 52.78	. 0
HETATM	3709	0	HOH	1298	29.292				ŏ
HETATM	3710	0	HOH	1299	26.196	40.554	47.655	1.00 52.83	Q
		Ö	HOH	1300	6.687	28.384	34.247	1.00 45.71	0
HETATM	_				41.624	1.272	27.661	1.00 61.55	0
HETATM	3712	0	HOH	1303					Ō
HETATM	3713	0	HOH	1306	24.865	48.368	49.108	1.00 53.05	9
HETATM		Ö	HOH	1308	43.375	33.196	54'.115	1.00 34.68	0
					24.941	16.106	28.105	1.00 27.22	0
HETATM	3715	0	HOH	1309					Ď
HETATM	3716	0	HOH	1310	48.767	36.362	53.067	1.00 39.18	0
		ŏ	HOH	1311	0.897	25.934	24.841	1.00 47.80	0
HETATM					41.531	54.883	30.082	1.00 37.92	0
HETATM	3718	0	HOH	1312					Ō
HETATM	3719	0	HOH	1315		19.055	31.177	1.00 43.71	
HETATM	חככב	ŏ		1316	19.469	15 <i>.</i> 072	45.662	1.00 48.16	0
					10.144	48.734	5.731	1.00 39.11	. 0
HETATM	3721	0	HOH	1321					ŏ
HETATM	3722	0	HOH	1322	29.076	56.977	42.203	1.00 46.38	
HETATM		ŏ	HOH	1326	42.727	8:091	54.610	1.00 56.42	0
					41.316	20.071	29.052	1.00 39.86	. 0
HETATM		0	HOH	1330				1.00 50.15	· o
HETATM	3725	0	HOH	1331	16.596	27.837	34.825		
HETATM		ŏ	HOH	1332	19.903	45.162	47.256		0
METATE	3/40	_			40.238	-8.133	39.062		0
HETATY	3727	0	HOH	1333					ŏ
HETATM		0	HOH	1335	32.007	37.168	46.170	1.00 43.84	•
		-							

•										
HETATM	3729	0	нон	1337	8.866	32.982	29.638	1.00 51.	57	0
HETATM		ō	HOH	1339	35.650	46.023	29.211	1.00 40.	99	0
HETATM		0	HOH	1340	52.825	32.335	38.756	1.00 50.	57	0
HETATM		0	HOH	1341	36.938	51.807	31.314	1.00 45.	30	0
HETATM	3733	0	HOH	1342	18.790	42.705	33.580	1.00 43.		0
HETATM		0	HOH	1344	22.819	36.661	11.619	1.00 46.		0
HETATM		0	HOH	1345	19.465	28.669	34.714	1.00 39.		0
HETATM		0	HOH	1347	40.179	23.790	53.530	1.00 47.		0
HETATM		0	HOH	1353	3.487	36.484	13.806	1.00 40.		0
HETATM		0	HOH	1360	31.223	4.884	34.089	1.00 30.	.96	0
HETATM		0	HOH	1361	19.647	3.819	14.444	1.00 26.	.16	O
HETATM	3740	0	HOH	1364	12.171	-3.712	34.829	1.00 52.	.07	0
HETATM	3741	0	HOH	1366	14.715	10.503	15.414	1.00 47.		0
HETATM		0	HOH	1370	3.284	18.073	30.684	1.00 39.	. 22	O
HETATM		0	HOH	1371	16.114	12.267	13.222	1.00 41.	.7 <del>9</del>	0
HETATM	3744	0	HOH	1374	26.710	-10.158	28.570	1.00 46.	.72	0
HETATM		0	HOH	1376	13.842	2.095	17.391	1.00 51.	. 23	0
HETATM		0	HOH	1377	23.624	18.176	26.993	1.00 46.	. 55	0
HETATM		0	HOH	1378	17.679	9.897		1.00 29.	.42	0
HETATM		.0	HOH	1380	21.173	-2.881	15.825	1.00 44.	. 25	0
HETATM		0	HOH	1381	25.990	6.184	14.411	1.00 40.	. 98	0
HETATM	3750	0	HOH	1382	25.475	8.938		1.00 40.	. 93	O
HETATM		0	HOH	1384	27.045		12.911	1.00 44.	. 46	0
HETATM		0	HOH	1387	15.174	-5.506	13.111	1.00 43.	. 09	0
HETATM	3753	0	HOH	1388	3.093	25.580	28.841	1.00 47.	. 33	Ö
HETATM	3754	0	HOH	1389	43.833	14.822	32.665	1.00 30.	.09	ō
HETATM	3755	0	HOH	1390	27.283	3.257	16.277	1.00 28	.50	0
HETATM	3756	0	HOH	1391	31.590	8.583	17.790	1.00 31	.43	0.
HETATM		0	HOH	1392	28.183	8.699	15.618	1.00 37	. 69	0
HETATM	3758	0	HOH	1393	24.599	3.854	15.072	1.00 40	.30	Ö
HETATM	3759	0	HOH	1404	39.148		32.035	1.00 17	. 64	Ö
HETATM		0	HOH	1405	0.837		22.324	1.00 55	.83	Ö
HETATM	3761	0	HOH	1406	29.799		27.910	1.00 28	.75	0
HETATM	3762	0	HOH	1407	18,445		44.059	1.00 53	.71	Ö
<b>HETATM</b>	3763	0	HOH	1409	30.392	39.323	25.039	1.00 34	.89	ž
HETATM	3764	0	HOH	1410	18.490	9.793	47.086	1.00 48	.51	0
HETATM	3765	0	HOH	1411	13.220		8.629	1.00 49	. 26	Ŏ.
HETATM	3766	0	HOH	1412	49.361		32.438	1.00 43	.65	Š
HETATM	3767	0	HOH	1414	51.855		41.242	1.00 64	. 20	. 0
HETATM	3768	0	HOH	1418	47.727		41.717	1.00 35	.47	ŏ
HETATM		0	HOH	1419	24.466		43.747		.20	Š
HETATM	3770	0	HOH	1420	5.934		8.318	1.00 45	. 33	×
HETATM		0	HOH	1421	32.399	-4.433	42.259	1.00 41	.31	×
HETATM	3772	0	HOH	1422		. 40.996	27.927	1.00 42	.40	ŏ
HETATM	3773	0	HOH	1424	36.321		35.913		.12	×
HETATM	3774	0	HOH	1428	16.200		4.789	1.00 62	.70	ŏ
HETATM	3775	0	HOH	1429	4.930		24.269		74	ŏ
HETATM		0.	HOH	1430	7.506		13.243	1.00 51	/%	Š
HETATM	3777	0	HOH	1434	16.093		11.936	1.00 39		. č
HETATM	3778	0	НОН	1437	32.063		31.547	1.00 49	. 62	Š
HETATM	3779	0	*****	1438	54.621				. <b>9</b> 4	ö
HETATM	3780	0	HOH	1440	4.318		8.919	1.00 47	25	. ŏ
HETATM		0	HOH	1441	5.136		29.831	1.00 44		. 0
HETATM		0	HOH	1443	2.076	24.174	15.211	1.00 38		ŏ
HETATM	3783	0	HOH	1444	15.474		30.690	1.00 51		ŏ
HETATM		0	HOH	1446	34.955		53.656			ŏ
HETATM	3785	0	нон	1447	28.597		31.041	1.00 40		ŏ
HETATM	3786	0	HOH	1454	34.884		12.912	1.00 33		ŏ
HETATM	3787	0	HOH	1455	56.971	31.610	49.136			0
UPTATM		0	HOH	1456	29.676	11.548	53.175	1.00 41		J

### Figure 8-74

47.217 3.172 42.347

13.064

6.260 47.337

-9:866 17.220

49.608

-9.399 24.411

28.232

37.583

-0.768

48.375

2.224

35.996 12.871 52.583

16.484 32.228 5.349

26.249

45.236

19.993

16.482 36.529

28.355

28.523

45.229

34.242

34.335

1.00 51.75 1.00 35.99 1.00 55.24

1.00 44.57

1.00 46.40 1.00 53.27

1.00 43.72

1.00 61.41

1.00 33.89

1.00 37.21

1.00 37.81

1.00 44.08 1.00 40.11

1.00 50.42

1.00 56.22

0000000000000000

HETATM	3789	Ò	нон	1457	46.713
HETATM		ŏ	HOH	1458	22.556
HETATM		Ō	HOH	1459	42.572
HETATM		0	нон	1461	0.573
HETATM	3793	0	HOH	1462	50.467
HETATM	3794	0	HOH	1463	6.167
HETATM		0	HOH	1464	24.604
HETATM	3796	0	HOH	1466	22.806
HETATM	3797	0	HOH	1506	25.441
HETATM	3798	0	HOH	1507	39.709
HETATM	3799	0	HOH	1509	9.926
HETATM	3800	0	HOH	1515	34.731
HETATM		.0	HOH	1518	44.323
HETATM		0	HOH	1519	30.194
HETATM	3803	0	HOH	1521	42.425
HETATM	3804	0	HOH	1523	12.185
CONECT	109	108	110	119	
CONECT	119	109	120		•
CONECT	120	119	121	123	
CONECT	121	120	122	127	
CONECT	122	121			
CONECT	123	120	124		
CONECT	124	123	125		
CONECT	125	124	126		
CONECT	126	125	128		
CONECT	127	121 186	188	189	
CONECT	187	187	190	107	
CONECT	189 190	189	191	193	
CONECT	191	190	192	197	
CONECT	192	191			
CONECT	193	190	194		
CONECT	194	193	195		
CONECT	195	194	196		
CONECT	196	195		•	
CONECT	197	191	198		
CONECT	248	247	905	•	
CONECT	279	278	280	286	
CONECT	286	279	287		
CONECT	287	286	288	290	
CONECT	288	287	289	294	
CONECT	289	288			
CONECT	290	287	291		•
CONECT	291	290	292		
CONECT		291	293		
CONECT	293	292			
CONECT	294	288			
CONECT	905	248	904		
CONECT		1037		1048	
CONECT		103B	1049	1050	
CONECT		1048		1052	
CONECT		1049	1051	1056	
CONECT		1050	1053		
CONECT		1049	1053 1054		
CONECT		1052			
CONECT		1053 1054	1032		
CONECT			1057		•
CONECT	_	1115		1118	
CONECT		1116			•
CONSCI	7770	1110	7		

```
CONECT 1119 1118 1120 1122
CONECT 1120 1119 1121 1126
CONECT 1121 1120
CONECT 1122 1119 1123
CONECT 1123 1122 1124
CONECT 1124 1123 1125
CONECT 1125 1124
CONECT 1126 1120 1127
CONECT 1177 1176 1874
CONECT 1208 1207 1209 1215
CONECT 1215 1208 1216
CONECT 1216 1215 1217 1219
CONECT 1217 1216 1218 1223
CONECT 1218 1217
CONECT 1219 1216 1220
CONECT 1220 1219 1221
CONECT 1221 1220 1222
CONECT 1221 1220 1222

CONECT 1222 1221

CONECT 1223 1217 1224

CONECT 1874 1177 1873

CONECT 1987 1986 1988 1997

CONECT 1997 1987 1998

CONECT 1998 1997 1999 2001
CONECT 1999 1998 2000 2005
CONECT 2000 1999
CONECT 2001 1998 2002
CONECT 2002 2001 2003
CONECT 2003 2002 2004
CONECT 2004 2003
CONECT 2005 1999 2006
CONECT 2065 2064 2066 2067
CONECT 2067 2065 2068
CONECT 2068 2067 2069 2071
CONECT 2069 2068 2070 2075
CONECT 2070 2069
CONECT 2071 2068 2072
CONECT 2072 2071 2073
CONECT 2073 2072 2074
 CONECT 2074 2073
CONECT 2075 2069 2076
CONECT 2154 2153 2155 2161
 CONECT 2161 2154 2162
CONECT 2162 2161 2163 2165
CONECT 2163 2162 2164 2169
 CONECT 2164 2163
 CONECT 2165 2162 2166
CONECT 2166 2165 2167
 CONECT 2167 2166 2168
 CONECT 2168 2167
CONECT 2169 2163 2170
 CONECT 2813 2812 2814 2823
 CONECT 2823 2813 2824
CONECT 2824 2823 2825 2827
 CONECT 2825 2824 2826 2831
 CONECT 2826 2825
CONECT 2827 2824 2828
 CONECT 2828 2827 2829
 CONECT 2829 2828 2830
CONECT 2830 2829
 CONECT 2831 2825 2832
```

END



```
CONECT 2891 2890 2892 2893
CONECT 2893 2891 2894
CONECT 2894 2893 2895 2897
CONECT 2895 2894 2896 2901
CONECT 2896 2895
CONECT 2897 2894 2898
CONECT 2898 2897 2899
CONECT 2899 2898 2900
CONECT 2900 2899
CONECT 2901 2895 2902
CONECT 2983 2982 2984 2990
CONECT 2990 2983 2991
CONECT 2991 2990 2992 2994
CONECT 2992 2991 2993 2998
CONECT 2993 2992
CONECT 2994 2991 2995
CONECT 2995 2994 2996
CONECT 2996 2995 2997
CONECT 2997 2996
CONECT 2998 2992 2999
CONECT 3522 3541 3542
CONECT 3524 3544 3545 3546
CONECT 3525 3526
CONECT 3526 3525 3527
CONECT 3527 3526 3528
CONECT 3528 3527 3530
CONECT 3529 3530 3531
CONECT 3530 3528 3529
CONECT 3531 3529 3533
CONECT 3532 3533 3534
CONECT 3533 3531 3532
CONECT 3534 3532 3536
CONECT 3535 3536 3537
CONECT 3536 3534 3535
CONECT 3537 3535 3539
CONECT 3538 3539 3540
CONECT 3539 3537 3538
CONECT 3540 3538
CONECT 3541 3522
CONECT 3542 3522
CONECT 3544 3524
CONECT 3545 3524
CONECT 3546 3524
MASTER
                301
                              16
```

submitted:

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## Figure 9

HETATM	4233 -	0	HOH	1021	36.890	32.430	27.721	1.00 24.58
HETATM	4234	0	HOH	1021	35.049	30.934	29.322	1.00 27.97
HETATM	4236	0	HOH	1022	31.347	42.865	52.839	1.00 31.45
HETATM		0	HOH	1023	44.819	10.251	32.056	1.00 31.08
HETATM		0	HOH	1023	47.508	7.695	33.365	1.00 35.15
HETATM		Ŏ	нон	1023	48.695	9.256	30.957	1.00 29.22
to this	· 3:							
HETATM		0	HOH	1021	36.890	32.430	27.721	1.00 24.58
HETATM	4234	0	HOH	1022	35.049	30.934	29.322	1.00 27.97
HETATM	4236	0	HOH	1023	31.347	42.865	52.839	1.00 31.45
HETATM	4238	0	HOH	1024	44.819	10.251	32.056	1.00 31.08
HETATM		0	HOH	1025	47.508	7.695	33.365	1.00 35.15
HETATM		0	HOH	1026	48.695	9.256	30.957	1.00 29.22
The LI	NKs ar	e:	-		•			
LINK		CA	CA	1021		0	HOH 102	24
LINK		CA	CA	1021		. 0	HOH 102	25
LINK		CA	CA	1023		0	HOH 102	27
LINK		CA	CA	1023		0	HOH 102	28
LINK		CA	CA	1023		0	HOH 102	29
						-		-

### Figure 10

#### A. General model

B. Embodiment of the ligand head as an oligopeptide

$$F_1 - X_n - F_L(Cys) - X_m - F_2 - X_p - F_3$$